





<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>ANAM</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/-1-09</u></p> <p>VALIDO HASTA: 2009-06-26 VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>																					
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>Marcy Balunas Instituto Smithsonian de Investigaciones Tropicales, Panamá</p>		<table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p>	EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS															
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<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>Marcy Balunas Scripps Institution of Oceanography, San Diego California, U.S.A.</p>		<p>865118379142</p>																					
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>																							
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<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2009-03-26 DATE</p> 		 <p>ALEIDA SALAZAR Directora de Areas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>																					
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>																							



87127

REPUBLICA DE PANAMA
MINISTERIO DE DESARROLLO AGROPECUARIO
RECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DESDE
31-03-09

HASTA
31-05-09

CENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

QUE SUSCRIBE: **ING. DALIA VASQUEZ**

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN, CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE AUTORIZACION.

IMPORTADOR: CIP O RUC: NOMBRE O RAZON SOCIAL: MARCY BALUNAS. Scripps Instituto of Oceanography, San Diego DOMICILIO: California, U.S.A. APDO: U.S.A TEL: FAX:	EXPORTADOR: CIP O RUC: NOMBRE O RAZON SOCIAL: MARCY BALUNAS Instituto Smithsonian de Investigaciones Tropicales, Balboa Ancon., DOMICILIO: PANAMA APDO: TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
0.20	MG	CYANOBACTERIAS (VER ADJUNTO)	



PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO U.S.A.
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
 LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION

LUGAR DE EMISION: _____ FECHA DE EMISION: **31 03 09**

Dalia Vasquez




PERMISO CIENTIFICO - EXPORTACION

11/27/09 ✓

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX/-1-10</u></p> <p>VALIDO HASTA: <u>2010-04-16</u> VALID UNTIL</p>						
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>WILLIAM GERWICK INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES, Panamá</p>		<p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p>	EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS
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<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>								
<p>PROPOSITO PURPOSE</p> <p>Esta exportación se realiza con el fin de efectuar ensayos contra enfermedades tropicales en INDICASAI y ensayos contra otras enfermedades en SIO, para descubrir productos naturales activos.</p>								
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>					
<p>Macroalgas</p>	<p>Macroalgae spp.</p>	<p>650</p>	<p>Gramos (VER DETALLE ADJUNTO)</p>					
<p>Cianobacterias</p>	<p>Cianobacterias (VER LISTA ADJUNTA)</p>	<p>1050</p>	<p>Gramos (VER DETALLE ADJUNTO)</p>					
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2010-01-06 DATE</p> 		 <p>YESSENIA DEL C GONZALEZ MUÑOZ Directora</p> <p>FIRMA RESPONSABLE Y SELLO</p>						
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>								

**AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCIÓN DE ÁREAS PROTEGIDAS Y VIDA SILVESTRE
LISTA ADJUNTA DEL PERMISO CIENTIFICO DE EXPORTACIÓN N° SEX/1-10**

Nombre Común	Nombre Científico	Cantidades
Cianobacterias	<i>Lyngbya majuscula</i>	100 gramos
	<i>Lyngbya semiplena</i>	100 gramos
	<i>Lyngbya penicilliformis</i>	50 gramos
	<i>Lyngbya polychroa</i>	50 gramos
	<i>Lyngbya bouilloni</i>	100 gramos
	<i>Lyngbya sp</i>	100 gramos
	<i>Schizothrix sp</i>	100 gramos
	<i>Symploca sp.</i>	100 gramos
	<i>Oscillatoria sp.</i>	100 gramos
	<i>Phormidium sp.</i>	100 gramos
	<i>Rivularia sp</i>	50 gramos
	<i>Calothrix sp.</i>	50 gramos
	<i>Spirocoleus sp</i>	50 gramos
		Total
Macroalgas	<i>Tydemanina expeditionis</i>	50 gramos
	<i>Udotea geppii</i>	50 gramos
	<i>Neomaris sp.</i>	50 gramos
	<i>Dictyota sp</i>	100 gramos
	<i>Lobophora sp</i>	100 gramos
	<i>Styopodium sp.</i>	100 gramos
	<i>Laurencia sp</i>	100 gramos
	<i>Zellera sp.</i>	50 gramos
	<i>Peyssonnelia sp.</i>	50 gramos
	Total	650 gramos

<p align="center">REPUBLICA DE PANAMA</p> 	<p align="center">Autoridad Nacional del Ambiente</p>  <p align="center">anam</p> <p align="center">Apartado C Zona 0843, Balboa, Ancón Panamá</p>	<p align="center">PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p align="center">No <u>SEX/-1-12</u></p> <p align="center">VALIDO HASTA: <u>2012-05-17</u></p> <p>VALID UNTIL</p> <p align="center">FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>																									
<p>TITULAR (NOMBRE Y DIRECCIONES – PAIS) CONSIGNOR (NAME AND ADDRESS – COUNTRY)</p> <p>KEVIN J. TIDGEWELL INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES(ICBG), Panamá</p>		<table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p align="center">EXPORTACION</p>	EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS																			
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<p>DESTINATARIO (NOMBRE Y DIRECCIONES – PAIS) CONSIGNEE (NAME AND ADDRESS – COUNTRY)</p> <p>KEVIN J. TIDGEWELL University of California San Diego 9500 Gilman Drive, MC 0212, La Jolla, U.S.A.</p>																											
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<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2012-02-01 DATE</p> <p align="center">PREPARADO POR JORGE GARCÍA</p>		 <p align="center">ING. EDGAR T. CHACÓN R. Director de Áreas Protegidas y Vida Silvestre</p> <p align="center">FIRMA RESPONSABLE Y SELLO</p>																									
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Lista de Especies continúa atrás

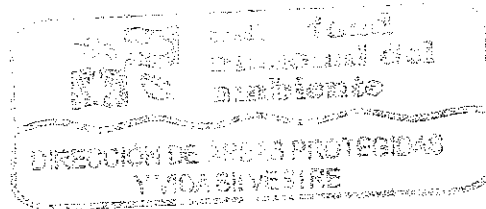
PERMISO CIENTIFICO



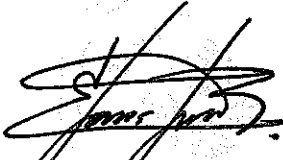
SCIENTIFIC PERMIT

(Continuación)

No. SEX/-1-12

NOMBRE COMUN COMMON NAME	NOMBRE CIENTÍFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION
Cianobacterias	Phormidium spp	2	Fracciones de cromatografía de 0.2 mg
Cianobacterias	Phormidium spp	1	Fracción de cromatografía de 0.1 mg



<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C Zona 0843 Balboa. Ancón Panamá</p>	<p>PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX-11-11</u></p> <p>VALIDO HASTA: <u>2011-10-18</u> VALID UNTIL</p>						
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>KEVIN J. TIDGEWELL INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG). Panamá</p>		<p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p>	EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS
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<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>								
<p>PROPOSITO PURPOSE</p> <p>Esta exportación se realiza para efectuar bioensayos contra cancer para descubrir nuevos compuestos naturales.</p>								
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTÍFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>					
<p>Cianobacterias</p>	<p>Lyngbya sp.</p>	<p>24.6 mg</p>	<p>En 9 fracciones</p>					
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2011-07-19 DATE</p> <p> PREPARADO POR JORGE GARCÍA</p>		<p> ING EDGAR T. CHACÓN R Director de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>						
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REPUBLICA DE PANAMA

092455

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
11-8-2011

HASTA
11-10-2011

EL QUE SUSCRIBE:

ING. MIGUEL VALLEJOS ID 904-82

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA Y CON FUNDAMENTO EN LA LEY 23 DEL 15 JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACIÓN SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACIÓN POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA

IMPORTADOR; CIP O RUC:

NOMBRE O RAZÓN SOCIAL:

**WILLIAM GERWICK/UNIVERSITY/
OF CALIFORNIA SANDIE**

DOMICILIO:

ESTADOS UNIDOS

APDO:

TEL:

FAX:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZÓN SOCIAL:

INSTITUTO SMITH SONIAN

DOMICILIO:

PANAMA

APDO:

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCIÓN	FINALIDAD
2.46	KILOS	CYANOBACTERIAS	

2.46

KILOS

CYANOBACTERIAS

PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA

PAIS DE DESTINO

ESTADOS UNIDOS

ADJUNTAR LOS REQUISITOS ESPECÍFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASÍ COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACIÓN ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITO-ZOOSANITARIOS PARA EXPORTACIÓN.





LUGAR DE EMISION

VICOMEX

FECHA DE EMISION

11-8-2011

[Handwritten Signature]
FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX/13-10</u></p> <p>VALIDO HASTA: <u>2010-09-01</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>																									
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<p>PROPOSITO PURPOSE</p> <p>Esta exportación se efetua para realizar bioensayos contra enfermedades tropicales.</p>																											
<table border="1"> <thead> <tr> <th>NOMBRE COMUN COMMON NAME</th> <th>NOMBRE CIENTIFICO SCIENTIFIC NAME</th> <th>CANTIDAD QUANTITY</th> <th>DESCRIPCIÓN DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>Cianobacteria</td> <td>Cianobacteria sp.</td> <td>23.1 mg</td> <td>Especie desconocida (A1843E)</td> </tr> <tr> <td>Cianobacteria</td> <td>Cianobacteria sp.</td> <td>19.7 mg</td> <td>Especie desconocida (A1843F)</td> </tr> <tr> <td>Cianobacteria</td> <td>Cianobacteria sp.</td> <td>15.3 mg</td> <td>Especie desconocida (A1843G)</td> </tr> <tr> <td>Cianobacteria</td> <td>Cianobacteria sp.</td> <td>120.5 mg</td> <td>Especie desconocida (A1843H)</td> </tr> <tr> <td>Cianobacteria</td> <td>Cianobacteria sp.</td> <td>450.5 mg</td> <td>Especie desconocida (A1843 I)</td> </tr> </tbody> </table>				NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION	Cianobacteria	Cianobacteria sp.	23.1 mg	Especie desconocida (A1843E)	Cianobacteria	Cianobacteria sp.	19.7 mg	Especie desconocida (A1843F)	Cianobacteria	Cianobacteria sp.	15.3 mg	Especie desconocida (A1843G)	Cianobacteria	Cianobacteria sp.	120.5 mg	Especie desconocida (A1843H)	Cianobacteria	Cianobacteria sp.	450.5 mg	Especie desconocida (A1843 I)
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Cianobacteria	Cianobacteria sp.	450.5 mg	Especie desconocida (A1843 I)																								
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2010-05-31 DATE</p> 		 <p>YESSÉNIA DEL C GONZÁLEZ M. Directora de Areas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>																									
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>																											



REPUBLICA DE PANAMA

84241

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
16-06-2010HASTA
16-08-2010

EL QUE SUSCRIBE:

ING. DONALINO MARTINEZ

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA.

IMPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

MARCY BALUNAS
Scripps Institution of Oceanography ,
University of California

DOMICILIO:

APDO:

TEL: U.S.A

FAX:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

MARCY BALUNAS
University Instituto Smithsonian de
Investigaciones Tropicales, Balboas - Ancon


DOMICILIO:

APDO:

PANAMA

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
0.000629		MUESTRAS DE CIANOBACTERIAS VER LISTADO ADJUNTO	

PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA

PAIS DE DESTINO

U.S.A

ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.




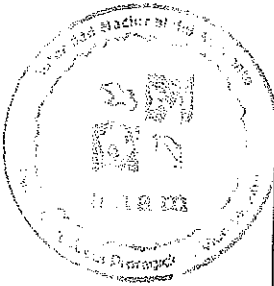
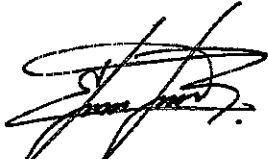
LUGAR DE EMISION

VICOMEX

FECHA DE EMISION



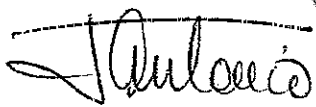

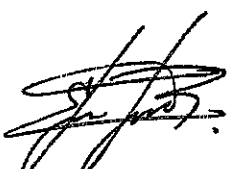
16-06-2010

Donalino Martinez
FIRMA

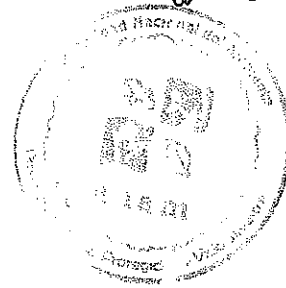
<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX-5-11</u></p> <p>VALIDO HASTA: <u>2011-08-26</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>KEVIN TIDGEWELL Instituto Smithsonian de Investigaciones Tropicales, Blaboa Ancon, Panamá</p>	<p>EXPORTACION RE- EXPORTACION RE- EXPORT EXPORT RE- IMPORTACION RE-IMPORTACION IMPORT IMPORT RE- TRANSITO OTROS TRANSIT OTHERS</p>		
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>WILLIAM GERWICK University of California San Diego 9500 Gilman Drive, MC 0212 La Jolla, CA 92093, U.S.A.</p>	<p>EXPORTACION</p>		
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Realizar estudios de incorporación de C dirigidos determinar los mecanismos biosinteticos utilizados por las cianobacterias</p>			
<p>NOMBRE COMUN COMMON NAME</p> <p>Cianobacterias</p>	<p>NOMBRE CIENTÍFICO SCIENTIFIC NAME</p> <p>(VER LISTA ADJUNTA)</p>	<p>CANTIDAD QUANTITY</p> <p>Ver lista adjunta</p>	<p>DESCRIPCIÓN DESCRIPTION</p> <p>gramos</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2011-05-26 DATE</p>  <p>JOSE ANTONIO GONZALEZ Técnico responsable</p>		  <p>ING EDGAR T CHACON R. Director de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

LISTA DE ESPECIES			
PERMISO DE EXPORTACION SEX/5-2011			
NOMBRE COMUN	NOMBRE CIENTIFICO	CANTIDAD	DESCRIPCION
Cianobacteria	Lyngbya majuscula	100	gramos
Cianobacteria	Lyngbya semiplena	100	gramos
Cianobacteria	Lyngbya penicilliformis	50	gramos
Cianobacteria	Lyngbya polychroa	50	gramos
Cianobacteria	Lyngbya bouillonii	100	gramos
Cianobacteria	Lyngbya sp	100	gramos
Cianobacteria	Schizothrix sp	100	gramos
Cianobacteria	Symploca sp	100	gramos
Cianobacteria	Oscillatoria sp	100	gramos
Cianobacteria	Phormidium sp	100	gramos
Cianobacteria	Rivularia sp	50	gramos
Cianobacteria	Calothrix sp	50	gramos
Cianobacteria	Spirocoleus sp	50	gramos





<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>ANAM</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX/6-11</u></p> <p>VALIDO HASTA: <u>2011-08-26</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>KEVIN TIDGEWELL Instituto Smithsonian de Investigaciones Tropicales, Blaboa Ancon, Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>WILLIAM GERWICK University of California San Diego 9500 Gilman Drive, MC 0212 La Jolla, CA 92093, U S A</p>		<p>EXPORTACION RE- EXPORTACION EXPORT RE- EXPORT EXPORT RE- IMPORTACION RE-IMPORTACION IMPORT IMPORT RE- TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>	
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Realizar estudios de incorporación de C dirigidos determinar los mecanismos biosintéticos utilizados por las cianobacterias</p>			
<p>NOMBRE COMUN COMMON NAME</p> <p>Cianobacterias</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p> <p>(VER LISTA ADJUNTA)</p>	<p>CANTIDAD QUANTITY</p> <p>Ver lista adjunta</p>	<p>DESCRIPCION DESCRIPTION</p> <p>gramos</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2011-05-26 DATE</p>  <p>JOSE ANTONIO GONZALEZ Técnico responsable</p>		  <p>ING. EDGAR T. CHACON R. Director de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

LISTA DE ESPECIES			
PERMISO DE EXPORTACION SEX/6-2011			
NOMBRE COMUN	NOMBRE CIENTIFICO	CANTIDAD	DESCRIPCION
Cianobacteria	Lyngbya majuscula	100	gramos
Cianobacteria	Lyngbya semiplena	100	gramos
Cianobacteria	Lyngbya penicilliformis	50	gramos
Cianobacteria	Lyngbya polychroa	50	gramos
Cianobacteria	Lyngbya bouillonii	100	gramos
Cianobacteria	Lyngbya sp	100	gramos
Cianobacteria	Schizothrix sp	100	gramos
Cianobacteria	Symploca sp	100	gramos
Cianobacteria	Oscillatoria sp	100	gramos
Cianobacteria	Phormidium sp	100	gramos
Cianobacteria	Rivularia sp	50	gramos
Cianobacteria	Calothrix sp	50	gramos
Cianobacteria	Spirococcus sp	50	gramos



11/22/09



<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX1-7-09</u> - <i>Cobecta SE/B-1-08</i></p> <p>VALIDO HASTA: <u>2010-02-25</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>
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<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>LUIS CUBILLA RÍOS INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá</p>	<table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p> <p>870841639290</p>	EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS
EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT						
IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT						
TRANSITO TRANSIT	OTROS OTHERS						
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>MARCY BALUNAS Center for Marine Biotechnology & Biomedicine, SOI, University of California at San Diego, U S A</p>							

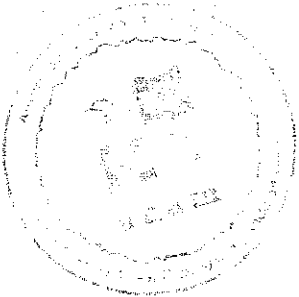

PUERTO DE SALIDA O ENTRADA / TRANSPORTE
PORT OF EXIT OR ENTRANCE / CARRIER

Aeropuerto Internacional de Tocumen

PROPOSITO
PURPOSE

Esta exportación se realiza con el fin realizar análisis que no se pueden realizar en Panamá y que son necesarios para finalizar exitosamente los estudios

NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION
Cianobacterias	Cianobacterias (VER LISTA ADJUNTA)	642 viales	Fracciones con peso de 15 17 g totales
Cianobacterias	Cianobacterias (VER LISTA ADJUNTA)	31 viales	Compuestos con peso de 55 3 mg totales

<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2009-11-25 DATE</p> 	 <p>YESSENIA DEL C GONZALEZ MUÑOZ Directora</p> <p>FIRMA RESPONSABLE Y SELLO</p>
---	---

ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO

THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY

**AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCIÓN DE ÁREAS PROTEGIDAS Y VIDA SILVESTRE**

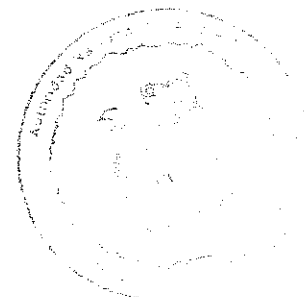
LISTA ADJUNTA DEL PERMISO DE EXPORTACIÓN DE FAUNA N° SEX/7-09

Fracciones:

Permiso No.	Especie	No. de Fracciones	No. de Viales	Peso Total (g)
SC/B-2-06	<i>Schizothrix</i> sp.	3	27	0.16
SC/B-3-06	<i>Symploca</i> sp.	3	20	0.61
SC/B-3-06	<i>Lyngbya</i> sp.	3	42	1.21
SC/B-3-06	<i>Lyngbya</i> sp.	3	34	0.64
SC/B-3-06	<i>Lyngbya</i> sp.	4	18	3.76
SE/B-1-07	✓ <i>Lyngbya</i> sp.	4	59	1.49
SE/B-1-07	desconocido	3	19	1.24
SE/B-1-07	<i>Phomidium</i> sp.?	3	21	0.42
SE/B-1-07	<i>Symploca</i> sp.	4	28	0.71
SE/B-1-07	<i>Lyngbya</i> sp.	2	19	0.35
SE/B-1-07	<i>Lyngbya</i> sp.	3	28	0.42
SE/B-1-07	<i>Lyngbya</i> sp.	6	49	1.75
SE/B-1-07	desconocido	3	13	0.34
SE/B-1-07	<i>Lyngbya penicilliformis</i>	3	26	0.30
SE/B-1-07	<i>Lyngbya</i> sp.	3	26	0.24
SE/B-1-07	desconocido	6	18	0.18
SE/B-1-07	<i>Schizothrix</i> sp.?	3	28	0.14
SE/B-1-07	<i>Lyngbya</i> sp.	10	101	0.47
SE/B-1-07	<i>Phomidium</i> sp.	4	14	0.09
SE/B-1-07	<i>Calothrix</i> sp.?	5	10	0.12
SE/B-1-07	<i>Calothrix</i> sp.?	3	23	0.30
SE/B-1-08	✓ <i>Lyngbya majuscula?</i>	3	19	0.23

Compuestos:

Permiso No.	Especie	No. de Viales	Peso (mg)
SC/B-3-06	<i>Lyngbya</i> sp.	1	0.5
SC/B-3-06	<i>Lyngbya</i> sp.	1	1.2
SC/B-3-06	<i>Lyngbya</i> sp.	1	0.3
SC/B-2-06	<i>Schizothrix</i> sp.	1	1.5
SE/B-1-07	<i>Lyngbya</i> sp.	1	3.5
SE/B-1-07	<i>Lyngbya</i> sp.	1	1.2
SE/B-1-07	<i>Symploca</i> sp.	1	3.5
SE/B-1-07	<i>Lyngbya</i> sp.	2	1.8
SE/B-1-07	<i>Lyngbya</i> sp.	1	24.5
SE/B-1-07	<i>Lyngbya</i> sp.	1	2.8
SE/B-1-07	<i>Lyngbya</i> sp.	1	2.1
SE/B-1-07	<i>Lyngbya penicilliformis</i>	1	4.6
SE/B-1-07	<i>Lyngbya penicilliformis</i>	1	1.9
SE/B-1-07	<i>Schizothrix</i> sp.	2	0.7
SE/B-1-07	<i>Schizothrix</i> sp.	2	0.7
SE/B-1-07	<i>Lyngbya</i> sp.	3	0.3
SE/B-1-07	<i>Lyngbya</i> sp.	3	0.3
SE/B-1-07	<i>Lyngbya</i> sp.	3	0.3
SE/B-1-07	<i>Lyngbya</i> sp.	3	1.0
SE/B-1-07	<i>Calothrix</i> sp.?	1	2.6





REPUBLICA DE PANAMA

78466

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No SOLICITUD

No AUTORIZACION

PERMISO FITO-ZOOSANITARIO DE EXPORTACION.

VIGENCIA: 14-12-2009

HASTA 14-02-2010

QUE SUSCRIBE: DR. CLAUDIO SERRATO

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE PERMISIÓN.

IMPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: DOMICILIO: PAIS: TEL: FAX:	MARCY BALUNAS Center for Marine Biotechnology & Biomedicine, SOI, University of California At San Diego. U. S. A.	EXPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: DOMICILIO: PAIS: TEL: FAX:	LUIS CUBILLA RÍOS Instituto de Investigaciones Tropicales, Balboa PANAMA
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
0.2	UNIDADES	FRACCIONES CON PESO DE 15.17 G. VIALES DE CIANOBACTERIAS. (VER LISTADO ADJUNTO).	
31	UNIDADES	COMPUESTOS CON PESO DE 55.3 MG. VIALES DE CIANOBACTERIAS. (VER LISTADO ADJUNTO).	

PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO U. S. A.
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997). LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

Dr. Claudio Serrato
IDONEIDAD No 180

LUGAR DE EMISION: VICOMEX
FECHA DE EMISION: 14-12-2009

FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX/7-10</u></p> <p>VALIDO HASTA: <u>2010-07-23</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>MARCY BALUNAS INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>MARCY BALUNAS Scripps Institution of Oceanography, University of San Diego California, U.S.A.</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>	
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Esta exportación se realiza con el proposito de fraccionar los extractos para ser utilizados en estudios de química de productos naturales.</p>			
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>
<p>Cianobacterias</p>	<p>Cianobacterias (VER LISTA ADJUNTA)</p>	<p>.....</p>	<p>Extractos y fracciones de cianobacterias</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2010-04-23 DATE</p> 		 <p>BELICE ANINO Directora Encargada de Areas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			


REPUBLICA DE PANAMA

83552

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
07-05-2010HASTA
07-07-2010

EL QUE SUSCRIBE:

DR. CLAUDIO SERRATO ID. 180
FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA

IMPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: MARCY BALUNAS Scripps Institution of Oceanography, Of San Diego, California DOMICILIO:		EXPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: MARCY BALUNAS University Instituto Smithsonian de Investigaciones DOMICILIO: Tropicales, Balboas - Ancon APDO: PANAMA TEL: FAX:	
APDO: U.S.A TEL: FAX:		APDO: PANAMA TEL: FAX:	

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
0.23616	kg	MUESTRAS DE EXTRACTOS Y	
1.21584	kg	FRACCIONES DE CIANOBACTERIAS VER LISTADO ADJUNTO	



PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION AFANCLARIA	PAIS DE DESTINO U.S.A
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION

 LUGAR DE EMISION
VICOMEX

 FECHA DE EMISION
07-05-2010

 FIRMA
 



<p align="center">REPUBLICA DE PANAMA</p> 	<p align="center">Autoridad Nacional del Ambiente</p>  <p align="center">anam</p> <p align="center">Apartado C Zona 0843, Balboa, Ancón, Panamá</p>	<p align="center">PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p align="center">No. <u>SEX/9-11</u></p> <p align="center">VALIDO HASTA: <u>2011-09-29</u> VALID UNTIL</p> <p align="center">FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES – PAIS) CONSIGNOR (NAME AND ADDRESS – COUNTRY)</p> <p>KEVIN TIDGEWELL INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES, BALBOA ANCON, Panamá</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p align="center">EXPORTACION</p>	
<p>DESTINATARIO (NOMBRE Y DIRECCIONES – PAIS) CONSIGNEE (NAME AND ADDRESS – COUNTRY)</p> <p>KEVIN TIDGEWELL UNIVERSIDAD DE CALIFORNIA SAN DIEGO, 9500 GILMAN DRIVE, MC 0212, LA JOLLA CA 92093, U S.A.</p>			
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Replicación de productos naturales activos</p>			
<p align="center">NOMBRE COMUN COMMON NAME</p>	<p align="center">NOMBRE CIENTÍFICO SCIENTIFIC NAME</p>	<p align="center">CANTIDAD QUANTITY</p>	<p align="center">DESCRIPCIÓN DESCRIPTION</p>
<p align="center">Cianobacterias</p>	<p align="center">Cianobacterias (VER LISTA ADJUNTA)</p>	<p align="center">ver lista</p>	<p align="center">ver lista adjunta</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2011-06-29 DATE</p>  <p>JOSE ANTONIO GONZALEZ Técnico responsable</p>		  <p>Lic. Jorge Garcia Director de Áreas Protegidas y Vida Silvestre encargado.</p> <p align="center">FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

PERMISO CIENTIFICO DE EXPORTACION
SEX/9-11
FECHA DE EXPIRACION 29-09-2011

Solicitud de Exportación de Recursos Genéticos y Biológicos

Medio de transporte	Aereo		
Puerto de Entrada	Estados Unidos, California- San Diego/Aeropuerto		
Especifique el género, especie, familia y cantidad del recurso para el cual se solicita el permiso de exportación (Puede incluir o eliminar tantas filas como sea necesario).			
Nombre común	Nombre Científico	Cantidad	Descripción
Cianobacteria – 1843	<i>Lyngbya</i> sp	0 001	1 fraccion de HPLC
Cianobacteria – 1972	<i>Lyngbya</i> sp	0 011	1 fraccion de VLC, 3 fracciones de HPLC, y 7 de SepPak
Cianobacteria – 1973	<i>Phormidium</i> sp.	0 010	3 fracciones de VLC y 7 de SepPak
Cianobacteria – 1974	<i>Lyngbya</i> sp.	0 002	2 fracciones de VLC
Cianobacteria – 1976	<i>Lyngbya</i> sp	0 001	1 fraccion de VLC y 7 de SepPak
Cianobacteria – 1978	<i>Oscillatoria</i> sp.	0 001	1 fraccion de VLC
Cianobacteria – 1980	<i>Oscillatoria</i> sp	0 001	1 fraccion de VLC
Cianobacteria – 1994	<i>Symploca</i> sp	0 008	1 fraccion de VLC y 7 de SepPak
Cianobacteria – 1995	<i>Symploca</i> sp	0 016	2 fracciones de VLC y 14 de SepPak
Cianobacteria – 1996	<i>Oscillatoria</i> sp	0 001	1 fracción de crudo
Cianobacteria – 1997	<i>Oscillatoria</i> sp.	0 001	1 fraccion de crudo
Cianobacteria – 2000	<i>Lyngbya</i> sp	0 002	2 fracciones de VLC
Cianobacteria – 2002	<i>Lyngbya</i> sp.	0 016	2 fracciones de VLC y 14 de SepPak
Cianobacteria – 2003	<i>Rhodophyta</i> sp	0 010	3 fracciones de VLC y 7 de SepPak
Cianobacteria – 2013	<i>Phormidium</i> sp	0.001	1 fraccion de VLC



<p align="center">REPUBLICA DE PANAMA</p> 	<p align="center">Autoridad Nacional del Ambiente</p>  <p align="center">ANAM</p> <p align="center">Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p align="center">PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p align="center">No. <u>SEX/A-145-04</u></p> <p align="center">VALIDO HASTA: <u>2005-01-20</u> VALID UNTIL</p> <p align="center">FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p align="center">FAUNA</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Instituto Smithsonian de Investigaciones Tropicales, Panamá, Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>KERRY MCPHAIL Oregon State University College of Pharmacy, Gerwick Research Lab., 231 Oak Creek Building, U.S.A.</p>		<p>EXPORTACION EXPORT IMPORTACION IMPORT TRANSITO TRANSIT</p> <p>RE-EXPORTACION RE-EXPORT RE-IMPORTACION RE-IMPORT OTROS OTHERS</p> <p align="center">EXPORTACION</p>	
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Fines Científico</p>			
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCION DESCRIPTION</p>
<p>Alga</p>	<p>Lyngbya sp.</p>	<p>50ml y 2 L.</p>	<p>organismos en solución salina</p>
<p>Alga</p>	<p>Symploca</p>	<p>50ml. y 2L</p>	<p>organismo en solución salina</p>
<p>Alga</p>	<p>Lyngbya majuscula</p>	<p>50 ml. y 2 L</p>	<p>Organismo en solución salina</p>
<p>Alga</p>	<p>Lyngbya semiplena</p>	<p>50 ml. y 2 L</p>	<p>organismo en solución salina</p>
<p>Alga</p>	<p>Lyngbya penicilliformis</p>	<p>50 ml. y 2L</p>	<p>organismo en solución salina</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Patrimonio Natural Servicio Nacional de Administración de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2004-10-20 DATE</p>		<p align="center"><i>Hilda Candanedo</i> ING. HILDA CANDANEDO Directora Nacional de Patrimonio Natural</p> <p align="center">FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

Lista de Especies continúa atrás

NOMBRE COMUN COMMON NAME	NOMBRE CIENTÍFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION
Algas	Lyngbya polychroa	50ml y 2L	organismo en solución salina
Algas	Lyngbya bouillonii	50ml y 2L	organismo en solución salina
Algas	Schizothrix sp.	50ml. y 2L	organismo en solución salina
Algas	Oscillatoria sp.	50 ml y 2 L	organismo en solución salina
Algas	Phormidium sp.	50ml. y 2 L	organismo en solución salina
Algas	Rivularia sp.	50ml. y 2L	organismo en solución salina
Algas	Spirocoleus	50ml. y 2L	organismo en solución salina
Algas	Tydemania expeditionis	50ml. y 2L	organismo en solución salina
Algas	Udotea geppii	50ml. y 2L	organismo en solución salina
Algas	Neonaris sp.	50ml. y 2L	organismo en solución salina
Algas	Dictyota sp.	50ml. y 2L	organismo en solución salina
Algas	Lobophora sp.	50ml. y 2L	organismo en solución salina
Algas	Styopodium/Padina sp.	50ml. y 2L	organismo en solución salina
Algas	Laurencia sp.	50ml. y 2L	organismo en solución salina
Algas	Zellera sp.	50ml. y 2L	organismo en solución salina
Algas	Peyssonnelia sp.	50ml. y 2L	organismo en solución salina
Algas	Calothrix/Diclothrix sp.	50ml y 2L	organismo en solución salina
Algas	Calothrix/Diclothrix sp.	50ml y 2L	organismo en solución salina




PERMISO CIENTIFICO

SCIENTIFIC PERMIT

(Continuación)

No SEX/A-145-04

7036-071.06

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  ANAM Apartado C, Zona 08-43, Balboa, Ancón, Panamá		PERMISO CIENTIFICO SCIENTIFIC PERMIT No. <u>SEX/A-147-06</u> VALIDO HASTA: <u>2007-03-13</u> VALID UNTIL FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS FAUNA	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá		EXPORTACION EXPORT IMPORTACION IMPORT TRANSITO TRANSIT		RE-EXPORTACION RE-EXPORT RE-IMPORTACION RE-IMPORT OTROS OTHERS EXPORTACION	
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) TODD CAPSON Scripps Institution of Oceanography, University of California at San Diego, U.S.A.					
PUERTO DE SALIDA O ENTRADA TRANSPORTE PORT OF EXIT OR ENTRANCE - CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Estos extractos se prepararán en los Estados Unidos y luego serán evaluados en el INDICASAT en Panamá					
NOMBRE COMUN COMMON NAME		NOMBRE CIENTIFICO SCIENTIFIC NAME		CANTIDAD QUANTITY	
Cianobacterias		Lyngbya sp.		1 botella	
Opistobranquios		Dolibrifera dolibrifera		1 vial	
DESCRIPCIÓN DESCRIPTION		1500 mL (en agua de mar) De 0.05 mg de extracto.			
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2006-12-13 DATE			 ALEIDA SALAZAR Directora de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO		
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO. THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					



REPUBLICA DE PANAMA

56342

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

DESDE

19/12/06

HASTA

19/02/07

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

EL QUE SUSCRIBE:

DRA. ANALEIDA MORON

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA

IMPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

TODD CAPSON

DOMICILIO: Scripps Institution of Oceanography, Univ.
California at San Diego U.S.A.

APDO.:

TEL.:

FAX:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

CATHERINA CABALLERO

DOMICILIO:

Instituto Smithsonian de Investigaciones
Tropicales PANAMA

APDO.:

TEL.:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
1	botella	Cianobacteria lynchbya sp. 1500 ml (en agua de mar)	
1	vial	Opisthobranchios dollbrifera dollbrifera de 0.05mg de extracto	



PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA

PAIS DE DESTINO

U.S.A.

ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION

LUGAR DE EMISION

VICOMEX

FECHA DE EMISION

19/12/06

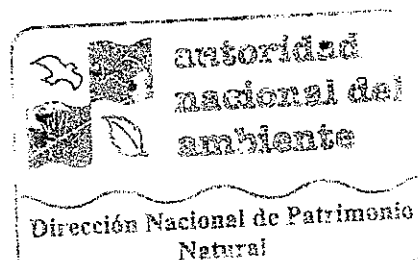
FIRMA



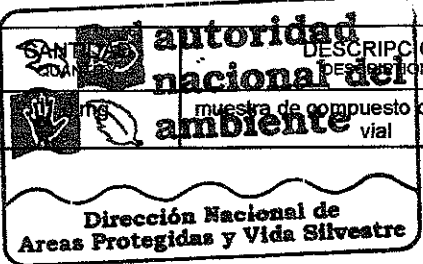

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>ANAM</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/A-48-05</u></p> <p>VALIDO HASTA: <u>2005-07-15</u> VALID UNTIL</p>
		<p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FAUNA</p>
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) TODD CAPSON INstituto Smithsonian de Investigaciones Tropicales, Ciudad de Panamá, Panamá</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) KERRY McPHAIL Oregon State University College of Pharmacy, Gerwick, Research Lab, 231 Oak, Corvallis, Oregon, U.S.A.</p>		
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen</p>		
<p>PROPOSITO PURPOSE Fines Científicos</p>		
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p> <p>Ver lista adjunta</p>	<p>CANTIDAD QUANTITY</p> <p>DESCRIPCIÓN DESCRIPTION</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Patrimonio Natural Servicio Nacional de Administración de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2005-04-15 DATE</p>		 <p>ING HILDA CANDANEDO Directora Nacional de Patrimonio Natural</p> <p>FIRMA RESPONSABLE Y SELLO</p>
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>		

Lista de especies que se desea exportar

La cantidad a exportar en todos los casos es entre 50 ml y 2 litros del organismo en solución salina.

1. 2 litros de *Oscillatoria* mas 50 ml de cultivo
2. 2 litros del alga parda *Dictyota*
3. 1 litro del alga roja *Liagora*
4. 1 litro de *Schizothrix* especie 1 mas 50 ml de cultivo
5. 1 litro de *Schizothrix* especie 2 mas 50 ml cultivo
6. 500 ml de *Schizothrix* especie 3 mas 50 ml de cultivo
7. 1 litro de un alga pigmentada rojo y amarillo sin identificar
8. 1 litro de un alga roja gelatinosa, sin identificar
9. 1 litro de una cianobacteria similar a *Symploca* mas 50 ml cultivo
10. 500 ml de diatomeas en cadena mas 50 ml cultivo
11. 1 litro de alga parda *Dilophus*
12. 1.5 litros de un alga roja filamentosa
13. 50 ml de cultivo de una cianobacteria especie 1
14. 50 ml de cultivo de una cianobacteria especie 2
15. 50 ml de cultivo de una cianobacteria especie 3
16. 50 ml de cultivo de una cianobacteria especie 4
17. 1 litro de *Lyngbya* especie 1 mas 50 ml de cultivo
18. 1 litro de *Lyngbya* especie 2 mas 50 ml de cultivo
19. 1 litro de *Lyngbya* especie 3 mas 50 ml de cultivo
20. 1 litro de *Lyngbya* especie 4 mas 50 ml de cultivo
21. 1 litro de *Lyngbya* especie 5 mas 50 ml de cultivo
22. 1 litro de *Schizothrix* especie 1 mas 50 ml de cultivo
23. 1 litro de *Schizothrix* especie 2 mas 50 ml de cultivo
24. 1 litro de *Schizothrix* especie 3 mas 50 ml de cultivo
25. 1 litro de *Schizothrix* especie 4 mas 50 ml de cultivo
26. 1 litro de *Schizothrix* especie 5 mas 50 ml de cultivo
27. 50 ml de cultivo de una cianobacteria especie 1
28. 50 ml de cultivo de una cianobacteria especie 1
29. 50 ml de cultivo de una cianobacteria especie 1
30. 50 ml de cultivo de una cianobacteria especie 1
31. 50 ml de cultivo de una cianobacteria especie 1
32. 1 litro de un alga parda *Dictyotaceae* especie 1
33. 1 litro de un alga *Rhodophyta* especie 1
34. 1 litro de un alga *Chlorophyta* especie 1



<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/A-65-06</u></p> <p>VALIDO HASTA: 2006-08-30 VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FAUNA</p>
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>CATHERINA CABALLERO INSTITUTO SMITSONIAN DE INVESTIGACIONES TROPICALES, Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>ARNOLD L. RHEINGOLD Dept. of Chemistry and Biochemistry, University of California, San Diego 9500, CA 92093-0358, U.S.A.</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>		
<p>PROPOSITO PURPOSE</p> <p>Se realizará la exportación para realizar la prueba de rayos X que creará un cristal que permitirá determinar la estructura y definir toda la estereoquímica.</p>		
<p>NOMBRE COMUN COMMON NAME</p> <p>Cyanobacteria</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p> <p>Symploca sp.</p>	 <p>DESCRIPCIÓN DESCRIPTION</p> <p>muestra de compuesto derivado en un vial</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2006-05-31 DATE</p>		 <p>ALEIDA SALAZAR Directora Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>		



REPUBLICA DE PANAMA

73377

**MINISTERIO DE DESARROLLO AGROPECUARIO
REGION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

DIRECCION FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA: DESDE 06/06/06

HASTA 06/08/06

QUE SUSCRIBE: DR. REINAI DO VIVEROS FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBE CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTACION.

IMPORTADOR; CIP O RUC:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

NOMBRE O RAZON SOCIAL:

ARNOLD I. RHEINGOLD

CATHERINA CABALERO

DOMICILIO: Depto. of Chemistry and Biochemistry
Univ. CA, San Diego 9500, CA92093-0358 USA

DOMICILIO: INST. SMITHSONIAN PANAMA

APDO:

TEL:

FAX:

APDO:

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
1.0	ml	cyanobacteria- symploca (muestra de compuesto derivado en un vial)	



08 JUN 2006

PAIS DE ORIGEN

PAIS DE PROCEDENCIA

LUGAR DE SALIDA

FRACCION ARANCELARIA

PAIS DE DESTINO

PANAMA

PANAMA

PASO CANOAS

U.S.A.

REUNIR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION

LUGAR DE EMISION

FECHA DE EMISION

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Compañía SMITHSONIAN TROPICAL RESEARCH

Dirección INSTITUTE / J1299 42 117408

Dirección EDIE TOPPER 401

Ciudad DEPTO DE ARS Estado Provincia

País PA Código Postal 99999

2 A/To Nombre del destinatario Arnold L. Rheingold Teléfono 958-822-3870

Compañía Dept. of Chemistry and Biochemistry

Dirección Univ. of California, San Diego, 9500

Dirección Gilman Drive, m/c 035B Pacific Hall 5100E

Ciudad La Jolla Estado Provincia CA

País USA Código Postal 92093-0358

Clave/número de identificación fiscal del destinatario para fines de aduana. El RFL/IN/EN/RU/NAI, o según se requiera en la localidad

3 Información Acerca del Embarque / Shipment Information

No. Total de Paquetes lbs. pulg.
Cuenta y carga del expedidor/SIAC kg DIM L I A I H cm

Descripción del producto REQUERIDO	Código armonizado	País de fabricación	Valor de aduana REQUERIDO
<u>Sample compounds</u> <u>COMPLETE EN INGLIS.</u>			
Valor total declarado para transporte	Indique tipo de moneda	Valor total de aduana	

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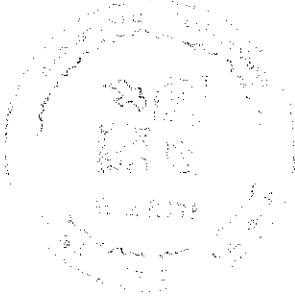

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SF-P

<p align="center">REPUBLICA DE PANAMA</p> 	<p align="center">Autoridad Nacional del Ambiente</p>  <p align="center">anam</p> <p align="center">Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p align="center">PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p align="center">No <u>SEX/A-93-10</u></p> <p align="center">VALIDO HASTA: <u>2011-01-06</u> VALID UNTIL</p>																					
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>Marcelino Gutierrez ICBG, Panamá</p>		<p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p align="center">FAUNA</p> <p>EXPORTACION RE- EXPORTACION EXPORT RE- EXPORT IMPORTACION RE-IMPORTACION RE- IMPORT IMPORT RE- IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p align="center">EXPORTACION</p> <p align="center">870839707986</p>																					
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>William H. Gerwick Instituto Oceanográfico Scripps, 8615 Discovery Way, Sverdrup Hall Rm. 3236 La Jolla CA 92037, U.S.A.</p>																							
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>																							
<p>PROPOSITO PURPOSE</p> <p>Análisis de muestras por espectrometría de masas</p>																							
<table border="1"> <thead> <tr> <th>NOMBRE COMUN COMMON NAME</th> <th>NOMBRE CIENTÍFICO SCIENTIFIC NAME</th> <th>CANTIDAD QUANTITY</th> <th>DESCRIPCIÓN DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>Hongo</td> <td>Endófitos</td> <td>0.5 g vial</td> <td>Aspergillus versicolor</td> </tr> <tr> <td>Hongo</td> <td>Endófitos</td> <td>0.5 g vial</td> <td>Emericella niger</td> </tr> <tr> <td>Hongo</td> <td>Endófitos</td> <td>0.5 g vial</td> <td>Aspergillus niger</td> </tr> <tr> <td>Bacteria marina</td> <td>-----</td> <td>0.65 g</td> <td>13 viales pequeño con 0.5g de muestra</td> </tr> </tbody> </table>	NOMBRE COMUN COMMON NAME	NOMBRE CIENTÍFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION	Hongo	Endófitos	0.5 g vial	Aspergillus versicolor	Hongo	Endófitos	0.5 g vial	Emericella niger	Hongo	Endófitos	0.5 g vial	Aspergillus niger	Bacteria marina	-----	0.65 g	13 viales pequeño con 0.5g de muestra			
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Bacteria marina	-----	0.65 g	13 viales pequeño con 0.5g de muestra																				
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre Téc. Carmen A. Medina G.</p> <p>FECHA: 2010-10-06 DATE</p> 		 <p>ING. EDGAR T. CHACÓN R. Director Encargado de Áreas Protegidas y Vida Silvestre</p> <p align="center">FIRMA RESPONSABLE Y SELLO</p>																					
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>																							



REPUBLICA DE PANAMA

88363

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DESDE

HASTA

VIGENCIA:

28-10-2010

28-12-2010

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

EL QUE SUSCRIBE:

ING. JAIME CACERES

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA Y CON FUNDAMENTO EN LA LEY 23 DEL 15 JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACIÓN SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACIÓN POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA.

IMPORTADOR; CIP O RUC: WILLIAM H. GERWICK NOMBRE O RAZÓN SOCIAL: INSTITUTO OCEANOGRAFICO SCRIPPS DOMICILIO: ESTADOS UNIDOS APDO: TEL: FAX:	EXPORTADOR; CIP O RUC: MARCELINO GUTIERREZ ICBG NOMBRE O RAZÓN SOCIAL: PANAMA DOMICILIO: PANAMA APDO.: TEL: FAX:
---	---

CANTIDAD	UNID. DE MED.	DESCRIPCIÓN	FINALIDAD
3		VIALES DE HONGOS ENDÓFITOS	
13		VIALES DE BACTERINA MARINA	



PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO ESTADOS UNIDOS
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ADJUNTAR LOS REQUISITOS ESPECÍFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASÍ COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACIÓN ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITO-ZOOSANITARIOS PARA EXPORTACIÓN.

LUGAR DE EMISION

FECHA DE EMISION

VICOMEX

28 - 10 - 2010

Jaime Caceres
FIRMA

Commercial Invoice

INTERNATIONAL

AIRWAYBILL NO. 8708 3970 7986

DATE OF EXPORTATION:

November 23, 2010

EXPORT REFERENCES (IE order No , Invoice No etc)

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Smithsonian Tropical Research Institute
Attn: Erika Garibaldo / Marcelino Gutierrez
Unit 9100 Box 0948
DPO AA 34002-9998
USA

CONSIGNEE (complete name and address)

William Gerwick

Scripps Institution of Oceanography
 8615 Discovery Way, Sverdrup Hall Rm 3236
 La Jolla, CA
92037
USA

COUNTRY OF EXPORT

USA

COUNTRY OF MANUFACTURE

PANAMA

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PANAMA

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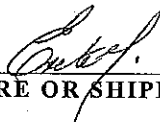
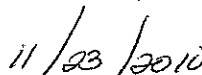
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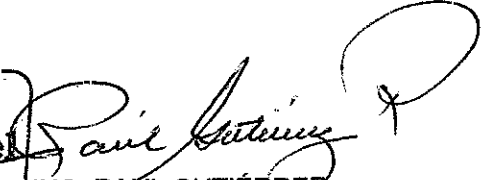
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<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX/A-98-06</u></p> <p>VALIDO HASTA: <u>2006-11-03</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FAUNA</p>																									
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<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Scripps Institution of Oceanography, University of San Diego, MC 0212 La Jolla, California 92093-0212, Panamá</p>																											
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>																											
<p>PROPOSITO PURPOSE</p> <p>La exportación se realiza para realizar extracciones, para luego trasladarlas a Panamá para evaluar la actividad biológica contra la malaria</p>																											
<table border="1"> <thead> <tr> <th>NOMBRE COMUN COMMON NAME</th> <th>NOMBRE CIENTIFICO SCIENTIFIC NAME</th> <th>CANTIDAD QUANTITY</th> <th>DESCRIPCIÓN DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>Corales</td> <td>Heterogorgia sp., Leptogorgia sp.</td> <td>40 viales</td> <td>con muestras para pruebas de ADN.</td> </tr> <tr> <td>Corales</td> <td>Heterogorgia sp., Leptogorgia sp.</td> <td>20 petris</td> <td>Con muestras de bacterias de los corales</td> </tr> <tr> <td>Corales</td> <td>Heterogorgia sp., Leptogorgia sp.</td> <td>2 Kg.</td> <td>Coral crudo (1Kg cada uno)</td> </tr> <tr> <td>Corales</td> <td>Psammogorgia arbuscula</td> <td>20 viales</td> <td>con muestras para pruebas de ADN.</td> </tr> <tr> <td>Corales</td> <td>Psammogorgia arbuscula</td> <td>10 petris</td> <td>Con muestras de bacterias de los corales</td> </tr> </tbody> </table>				NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION	Corales	Heterogorgia sp., Leptogorgia sp.	40 viales	con muestras para pruebas de ADN.	Corales	Heterogorgia sp., Leptogorgia sp.	20 petris	Con muestras de bacterias de los corales	Corales	Heterogorgia sp., Leptogorgia sp.	2 Kg.	Coral crudo (1Kg cada uno)	Corales	Psammogorgia arbuscula	20 viales	con muestras para pruebas de ADN.	Corales	Psammogorgia arbuscula	10 petris	Con muestras de bacterias de los corales
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<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2006-08-03 DATE</p>		 <p>ING. PAUL GUTIÉRREZ Director Nacional de Áreas Protegidas y Vida Silvestre a.i.</p> <p>FIRMA RESPONSABLE Y SELLO</p>																									
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>																											

Lista de Especies continúa atrás

PERMISO CIENTIFICO
 SCIENTIFIC PERMIT
 (Continuación)
 No. SEX/A-98-06

NOMBRE COMUN COMMON NAME	NOMBRE CIENTÍFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION
Corales	Psammogorgia arbuscula	1 Kg	Coral crudo



CONVENCIÓN SOBRE EL COMERCIO INTERNACIONAL DE ESPECIES AMENAZADAS DE FAUNA Y FLORA SILVESTRES

<input checked="" type="checkbox"/>	EXPORTACIÓN
<input type="checkbox"/>	RE-EXPORTACIÓN
<input type="checkbox"/>	IMPORTACIÓN
<input type="checkbox"/>	OTROS

1 PERMISO / CERTIFICADO

No. SEX/A27-06

2 VALIDO HASTA EL
24 de Mayo de 2006

3 IMPORTADOR (NOMBRE Y DIRECCIÓN PAÍS) MARCELINO GUTIERREZ, Center for Marine Biotechnology and Biomedicine Scripps Institution of Oceanography University of California 9500 Gilman Drive MC0212, USA	4 EXPORTADOR (NOMBRE Y DIRECCIÓN PAÍS) MARCELINO GUTIERREZ, Instituto Smithsonian de Investigaciones Tropicales, Ciudad de Panama, Republica de Panama
---	---

5 CONDICIONES ESPECIALES

PARA ANIMALES VIVOS: ESTE PERMISO ES VALIDO SOLO SI LAS CONDICIONES DE TRANSPORTE SE AJUSTAN A LAS DIRECTRICES CITES SOBRE EL TRANSPORTE DE ANIMALES VIVOS O EN CASO DEL TRANSPORTE AEREO A LA REGLAMENTACIÓN DE LA IATA SOBRE EL TRANSPORTE DE ANIMALES VIVOS.

6

REPÚBLICA DE PANAMÁ

ANAM
AUTORIDAD NACIONAL DEL AMBIENTE
AUTORIDAD ADMINISTRATIVA DE CITES
Apartado C, Zona 0843, Balboa, Ancón

5a. FIN DE LA TRANSACCION VER AL VERSO) S(Cientifico) | 5b. ESTAMPILLA DE SEGURIDAD No

7/8. NOMBRE COMÚN Y NOMBRE CIENTÍFICO (GÉNERO Y ESPECIE) DE LA PLANTA	9. DESCRIPCIÓN PARTE O DERIVADO; MARCAS O NÚMEROS DE IDENTIFICACIÓN (EDAD/SEXO SI VIVOS)	10. APENDICE PROCEDENCIA (VER VERSO)	11. CANTIDAD (INCLUSO UNIDAD DE MEDIDA)	11a. TOTAL EXPORTADOR CUPO
A. 7. Coral 8. Heterogorgia sp.	9. viales (12.2g.) cada uno	10. IW	11. 18 viales	11a.
12 PAIS DE ORIGEN: Panama	PERMISO No: SEX/A27-06	FECHA: 24/02/06	12a. PAIS DE PROCEDENCIA	No DE CERTIFICADO
B. 7. Coral 8. Psammogorgia sp.	9. viales (7.3g.) cada uno	10. IW	11. 10 viales	11a.
12 PAIS DE ORIGEN: Panama	PERMISO No: SEX/A27-06	FECHA: 24/02/06	12a. PAIS DE PROCEDENCIA	No DE CERTIFICADO
C. 7. Coral 8. Psammogorgia arbuscula	9. viales (13.6g.) cada uno	10. IW	11. 40 viales	11a.
12 PAIS DE ORIGEN: Panama	PERMISO No: SEX/A27-06	FECHA: 24/02/06	12a. PAIS DE PROCEDENCIA	No DE CERTIFICADO
D. 7. Coral 8. Leptogorgia sp.	9. viales (5.0g.) cada uno	10. IW	11. 25 viales	11a.
12 PAIS DE ORIGEN: Panama	PERMISO No: SEX/A27-06	FECHA: 24/02/06	12a. PAIS DE PROCEDENCIA	No DE CERTIFICADO

13 ESTE PERMISO ES EMITIDO POR LA AUTORIDAD SIGUIENTE:

Panama | 24 de Febrero de 2006

LUGAR | FECHA

LIBIA CASTRO DE DGENS ADMINISTRADORA GENERAL

NOMBRE, ESTAMPILLA DE SEGURIDAD, FIRMA Y SELLOS OFICIALES

14. APROBACIÓN DE LA EXPORTACIÓN | 15 CONOCIMIENTO DE EMBARQUE / CARTA DE PORTE AEREO

SECCIÓN	CANTIDAD
A.	18
B.	10
C.	40
D.	25

PUERTO DE EXPORTACIÓN | FECHA | FIRMA | SELLO Y CARGO OFICIALES

FROM : FEDEX PTYA

PHONE NO. : 507 236 7790

May. 28 2002 08:33AM PZ

TOXIC SUBSTANCE CONTROL ACT (TSCA)
CERTIFICATION

DATE: 3/14/06

(CHECK ONE SECTION ONLY)

POSITIVE CERTIFICATION:

 "I CERTIFY THAT ALL CHEMICAL SUBSTANCES IN THIS SHIPMENT COMPLY WITH ALL APPLICABLE RULES OR ORDERS UNDER TSCA AND THAT I AM NOT OFFERING A CHEMICAL SUBSTANCE FOR ENTRY IN VIOLATION OF TSCA OR ANY APPLICABLE RULE OR ORDER THEREUNDER."

. OR .

NEGATIVE CERTIFICATION:

X "I CERTIFY THAT ALL CHEMICALS IN THIS SHIPMENT ARE NOT SUBJECT TO TSCA."

COMPANY NAME: Smithsonian Institution

COMPANY ADDRESS: Ave. Roosevelt, Balboa Annex, Edif. Tupper

AUTHORIZED NAME: Erika Caribedo

AUTHORIZED SIGNATURE: Erika

TITLE: Administrative Assistant

FEDERAL EXPRESS AWB#: 9563-8601-7920

IF THE CERTIFIER IS UNSURE IF THEIR CHEMICAL SUBSTANCE IS SUBJECT TO TSCA COMPLIANCE, CONTACT THE ENVIRONMENTAL PROTECTION AGENCY, TSCA ASSISTANCE OFFICE, WASHINGTON, D.C. (202) 554-1404 BETWEEN 8:30 AM AND 5:00 PM EST.

REVISED May 7, 1990

Commercial Invoice



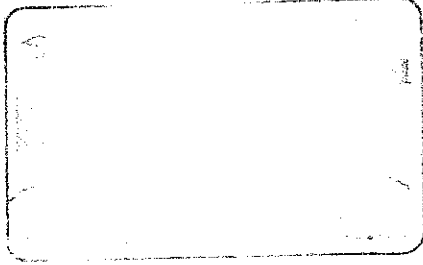

INTERNATIONAL AIRWAYBILL NO. <u>1563-8601-7920</u>							
DATE OF EXPORTATION: <u>March 14, 2006</u>				EXPORT REFERENCES (I E order No. Invoice No. etc))			
SHIPPER/EXPORTER (complete name and address) <u>Smithsonian Institute Enrika Conibido Building Topper 401 Balboa Annex Panama Rep. de Panama</u>				CONSIGNEE (complete name and address) <u>Marcelino Gutierrez Scripps Institution of Oceanography, USGS 8615 Discovery Way Sverdrup Hall Rm. 3202 La Jolla, CA 92037 USA</u>			
COUNTRY OF EXPORT <u>Panama</u>				IMPORTER-IF OTHER THAN CONSIGNEE (complete name and address)			
COUNTRY OF MANUFACTURE <u>Panama</u>							
COUNTRY OF ULTIMATE DESTINATION <u>USA</u>							
NO. OF PKG.	TYPE OF PKG.	FULL DESCRIPTION OF GOODS	QTY	UNIT OF MEASURE	WEIGHT	UNIT VALUE	TOTAL VALUE
		<u>CORAL Samples</u>	<u>93</u>	<u>Vials</u>			
TOTAL PKGS					TOTAL WEIGHT		TOTAL INVOICE VALUE
							CHECK ___ F.C ___ C& ___ C.I

THESE COMMODITIES, TECHNOLOGY, OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS, DIVERSION CONTRARY TO U.S. LAW PROHIBIT

I DECLARE ALL THE INFORMATION IN THIS INVOICE TO BE TRUE AND CORRECT.

Enrika Conibido
SIGNATURE OR SHIPPER/EXPORTER

3/14/06
DATE

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/AB-1-08</u></p> <p>VALIDO HASTA: <u>2008-12-22</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FAUNA, BACTERIAS</p>																					
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>LUIS CUBILLAS INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá</p>	<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p> <p>865118152769</p>																						
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>Kerry McPhail Orego State University, College of Pharmacy, Gerwick Research Lab., U.S.A.</p>																							
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>																							
<p>PROPOSITO PURPOSE</p> <p>Esta exportación se realiza con el fin de continuar estudios científicos para caracterización morfológica y genética, atracción y asilamiento de compuestos de los organismos.</p>																							
<table border="1"> <thead> <tr> <th>NOMBRE COMUN COMMON NAME</th> <th>NOMBRE CIENTIFICO SCIENTIFIC NAME</th> <th>CANTIDAD QUANTITY</th> <th>DESCRIPCIÓN DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>Cianobacterias</td> <td>Leptolyngbya spp.</td> <td>1</td> <td>Muestra de 500 mL diluida en etanol.</td> </tr> <tr> <td>Cianobacterias</td> <td>Leptolyngbya spp.</td> <td>2</td> <td>Muestras de 15 mL cada una en RNALater</td> </tr> <tr> <td>Cianobacterias</td> <td>Leptolyngbya spp.</td> <td>2</td> <td>Viales con 200 mL en agua de mar</td> </tr> <tr> <td>Cianobacterias</td> <td>Leptolyngbya spp.</td> <td>10</td> <td>Viales con 8 mL C/U.</td> </tr> </tbody> </table>	NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION	Cianobacterias	Leptolyngbya spp.	1	Muestra de 500 mL diluida en etanol.	Cianobacterias	Leptolyngbya spp.	2	Muestras de 15 mL cada una en RNALater	Cianobacterias	Leptolyngbya spp.	2	Viales con 200 mL en agua de mar	Cianobacterias	Leptolyngbya spp.	10	Viales con 8 mL C/U.			
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Cianobacterias	Leptolyngbya spp.	10	Viales con 8 mL C/U.																				
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2008-10-16 DATE</p> 	 <p>IBELICE AÑINO Directora Encargada de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>																						
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO. THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>																							



REPUBLICA DE PANAMA

81037

**MINISTERIO DE DESARROLLO AGROPECUARIO
 DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

DESDE

29-10-08

HASTA

29-12-08

DIRECCION GENERAL DE FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

QUE SUSCRIBE:

ING. DALIA VASQUEZ

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS
 Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN
 CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE
 AUTORIZACION.

IMPORTADOR; CIP O RUC:

 OREGON STATE UNIVERSITY, COLLEGE OF
 AGRICULTURE, GERWICK RESEARCH LAB. KERRY MC. PHAIL
 NOMBRE O RAZON SOCIAL:

EXPORTADOR; CIP O RUC:

 INSTITUTO SMITHSONIAN
 LUIS CUBILLA
 NOMBRE O RAZON SOCIAL:

DOMICILIO: U.S.A.

DOMICILIO: PANAMA

TEL: _____

TEL: _____

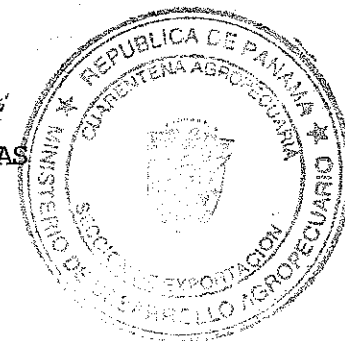
FAX: _____

TEL: _____

TEL: _____

FAX: _____

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
1	ML.	MUESTRA DE 500 ML. DILUIDA EN ETANOL CIANOBACTERIAS	
2	ML.	MUESTRA DE 15 ML. CADA UNA EN RNA LATER CIANOBACTERIAS	
2	ML.	MUESTRA VIALES CON 200 ML. EN AGUA DE MAR CIANOBACTERIAS	
10	ML.	viales con 8 ML. C/U CIANOBACTERIAS	



PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA




PAIS DE DESTINO

U.S.A.

ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO
 PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)
 LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL
 CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION
VICOMEXFECHA DE EMISION
29-10-08

FIRMA

<p>REPUBLICA DE PANAMA</p> 		<p>Autoridad Nacional del Ambiente</p>  <p>anam</p>		<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/AP-2-05</u></p> <p>VALIDO HASTA: <u>2005-08-26</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FAUNA, FLORA</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Grupo Internacionales Coopertaivos de la Biodiversidad, ICBG, Panamá</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>			
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>KERRY McPHAIL Oregon University College of Pharmacy, Gerwick Research Lab, 231 Oak Creek Building,, U.S.A.</p>					
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>					
<p>PROPOSITO PURPOSE</p> <p>Fines Científicos</p>					
<p>NOMBRE COMUN COMMON NAME</p>		<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p>		<p>CANTIDAD QUANTITY</p>	
<p>Alga</p>		<p>Cyanobacteria</p>		<p>-----</p>	
<p>Alga</p>		<p>Macroalgae</p>		<p>-----</p>	
<p>DESCRIPCION DESCRIPTION</p>		<p>VER LISTADO ADJUNTO</p>			
<p>VERLISTADO ADJUNTO</p>					
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Patrimonio Natural Servicio Nacional de Administración de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2005-05-26 DATE</p>			 <p>ING. HILDA CANDANEDO Directora Nacional de Patrimonio Natural</p> <p>FIRMA RESPONSABLE Y SELLO</p>		
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>					





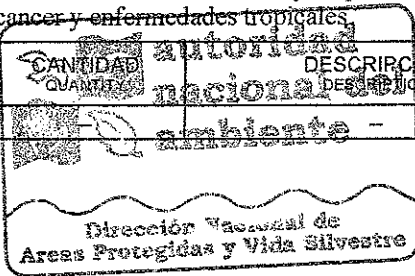
ICBG-036-05

Lista de especies que se desea exportar

La cantidad a exportar en todos los casos es entre 50 ml y 2 litros del organismo en una mezcla de agua y alcohol.

1. 2 litros de *Lynbya* especie 1 mas 50 mL de cultivo
2. 2 litros de *Lynbya* especie 2 mas 50 mL de cultivo
3. 2 litros de *Lynbya* especie 3 mas 50 mL de cultivo
4. 1 litro de *Symploca* especie 1 mas 50 mL de cultivo
5. 1 litro de *Symploca* especie 2 mas 50 mL de cultivo
6. 1 litro de *Symploca* especie 3 mas 50 mL de cultivo
7. 1 litro de *Symploca* especie 4 mas 50 mL de cultivo
8. 1 litro de *Schizothrix* especie 1 mas 50 mL de cultivo
9. 1 litro de *Schizothrix* especie 2 mas 50 mL de cultivo
10. 1 litro de *Schizothrix* especie 3 mas 50 mL de cultivo
11. 1 litro de *Schizothrix* especie 4 mas 50 mL de cultivo
12. 2 litros *Oscillatoria* especie 1 mas 50 mL de cultivo
13. 1 litro *Oscillatoria* especie 2 mas 50 de cultivo
14. 50 mL de cultivo de *Symploca* especie 5
15. 50 mL de cultivo de *Symploca* especie 6
16. 50 mL de cultivo de *Symploca* especie 7
17. 50 mL de cultivo de *Schizothrix* especie 5
18. 50 mL de cultivo de *Schizothrix* especie 6
19. 50 mL de cultivo de *Schizothrix* especie 7
20. 50 mL de cultivo de *Schizothrix* especie 8
21. 500 mL de *Phormidium* especie 1 mas 50 mL de cultivo



<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>ANAM</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. SEX/B-1-06</p> <p>VALIDO HASTA: 2006-06-23 VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>BACTERIAS</p>
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES, Panamá</p>	<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>	
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Scripps Institution of Oceanography, University of California at San Diego, La Jolla Cal. 92093-0212, U S A.</p>		
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>		
<p>PROPOSITO PURPOSE</p> <p>Se harán los extractos para luego enviarlos a Panamá (SENACYT) donde se les realizarán ensayos que anteriormente indicaron la presencia de sustancias que tienen actividad contra el cancer y enfermedades tropicales.</p>		
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p>	<p>CANTIDAD / QUANTITY</p> <p>DESCRIPCION / DESCRIPTION</p>
	<p>Ver lista adjunta</p>	
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2006-03-22 DATE</p>		 <p><i>Aleida Salazar</i> ALEIDA SALAZAR Directora Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>		

Lista de especies que se desea exportar

La cantidad a exportar en todos los casos es entre 300 mililitros y 4 litros del organismo en una mezcla de agua y alcohol.

1.	<i>Schizothrix spp.</i>	2	300 mL
2.	<i>Schizothrix spp.</i>	5	800 mL
3.	<i>Leptolynbia spp.</i>	3	4 litros
4.	<i>Symploca spp.</i>	2	1.3 mL
5.	<i>Symploca spp.</i>	5	1 litro
6.	<i>cianobacteria spp.</i>	19	400 mL
7.	<i>cianobacteria spp.</i>	22	1.2 litros
8.	<i>cianobacteria spp.</i>	28	300 mL
9.	<i>cianobacteria spp.</i>	30	800 mL





REPUBLICA DE PANAMA

72460

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

**DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA
DIRECCION FITO-ZOOSANITARIA DE EXPORTACION.**

VIGENCIA:

DESDE

27/03/06

HASTA

27/05/06

QUE SUSCRIBE: DRA. ANALEIDA MORON

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN, CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE AUTORIZACION.

IMPORTADOR; CIP O RUC:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

NOMBRE O RAZON SOCIAL:

TODD CAPSON

TODD CAPSON / INST. SMITHSONIAN

DOMICILIO: Scripps Inst. of Oceanography, University of California at San Diego, La Jolla California 92037-0212, U.S.A.

DOMICILIO:

PANAMA

APDO:

TEL:

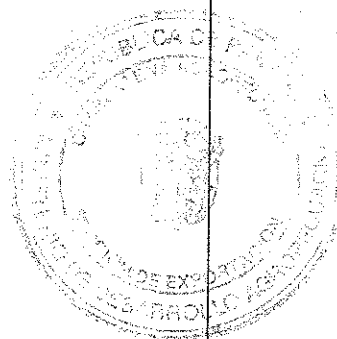
FAX:

APDO:

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
300	ml	schizothrix spp. 2	
800	ml	schizotrix spp. 5	
4	litros	leptolynbia spp 3	
1.3	ml	symploca spp 2	
1	ml	symploca spp 5	
400	ml	cianobacteria spp 19	
1.2	litros	cianobacteria 22	
300	ml	cianobacteria 28	
800	ml	cianobacteria 30	



PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA



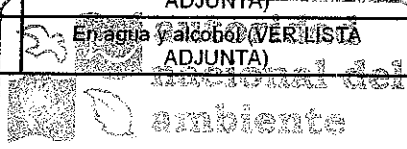
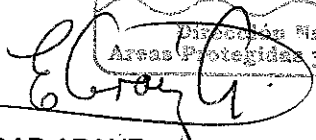
PAIS DE DESTINO

U.S.A.

SE DEBE PRESENTAR JUNTO A ESTE CERTIFICADO LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.




LUGAR DE EMISION

FECHA DE EMISION

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  anam Apartado C, Zona 0843, Balboa, Ancón, Panamá		PERMISO CIENTIFICO SCIENTIFIC PERMIT No. <u>SEX/B-1-07</u> VALIDO HASTA: <u>2007-05-27</u> VALID UNTIL FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS BACTERIAS	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá			EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION		
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) KERRY McPHAIL Oregon State University College of Pharmacy, Gerwick Research Lab ,Corvallis,Oregon 97331 , U.S.A					
PUERTO DE SALIDA O ENTRADA TRANSPORTE PORT OF EXIT OR ENTRANCE CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Realizar los extractos para luego enviarlos a SENACYT, y probar la actividad de los bioensayos e identificar éstos compuestos activos					
NOMBRE COMUN COMMON NAME		NOMBRE CIENTIFICO SCIENTIFIC NAME		CANTIDAD QUANTITY	
Macroalgas		Macroalgae spp.		650 gramos	
Cyanobacterias		Cyanobacterias spp.		1050 gramos	
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre		  EDGAR ARAÚZ Director Encargado de Áreas Protegidas y Vida Silvestre			
FECHA: 2007-02-27 DATE		FIRMA RESPONSABLE Y SELLO			
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO. THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					

Descripción del Organismo	Especie	Cantidad
Cyanobacteria	<i>Lyngbya majuscula</i>	100g
	<i>Lyngbya semiplena</i>	100g
	<i>Lyngbya penicilliformis</i>	50g
	<i>Lyngbya polychroa</i>	50g
	<i>Lyngbya bouilloni</i>	100g
	<i>Lyngbya</i> sp.	100g
	<i>Schizothrix</i> sp.	100g
	<i>Symploca</i> sp.	100g
	<i>Oscillatoria</i> sp.	100g
	<i>Phormidium</i> sp.	100g
	<i>Rivularia</i> sp.	50g
	<i>Calothrix/Dichothrix</i> sp.	50g
	<i>Spirocoleus</i> sp.	50g
Macroalgas	<i>Tydemania expeditionis</i>	50g
	<i>Udotea geppii</i>	50g
	<i>Neomaris</i> sp.	50g
	<i>Dictyota</i> sp.	100g
	<i>Lobophora</i> sp.	100g
	<i>Styopodium /Padina</i> sp.	100g
	<i>Laurencia</i> sp.	100g
	<i>Zelleria</i> sp.	50g
	<i>Peyssonnelia</i> sp.	50g



<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/B-10-06</u></p> <p>VALIDO HASTA: 2006-12-06 VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>BACTERIAS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>CAIHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p style="text-align: center;">EXPORTACION</p>	
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>LUKE SIMMONS Scripps Institution of Oceanography,UCSD 8615 Discovery Way Sverdrup Hall Rm. 3236,La Jolla,CA 92037 , U.S.A.</p>			
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>La exportación se realiza con el fin de realizar análisis exacto de masa, el cual no se realiza en Panamá</p>			
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>
Cyanobacteria	Lyngbya sp.	2 viales	conteniendo 0.05 mg de comp. puro C/U
Cyanobacteria	Schizothrix sp.	4 viales	conteniendo 0.05 mg de comp. puro C/U
Cyanobacteria	Symploca sp.	1 vial	conteniendo 0.05 mg de compuesto puro
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2006-09-06 DATE</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">  <p>autoridad nacional del ambiente</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> </div>		<p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">LIC. YARIELA HIDALGO Directora Nacional de Áreas Protegidas y Vida Silvestre a.i.</p> <p style="text-align: center;">FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			



REPUBLICA DE PANAMA

46174

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
18-09-06HASTA
18-11-06

EL QUE SUSCRIBE:

ING. DALIA VASQUEZ

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTEN

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBE CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENT LICENCIA

18 SEP 2006

IMPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: LUKE SIMMONS SCRIPPS INST. OF OCEANOGRAPHY DOMICILIO: 8615 Discovery Way, Sverdrup Hall Rm. La Jolla, Ca 92037 USA. APDO: TEL: 856624048974	EXPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: DRA. CATHERINA CABALLERO I.C.B.G. DOMICILIO: Smithsonian de Invest. Tropicales APDO: TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
2	viales	Cyanobacteria (Lyngobya sp. (contenido de 0.05 mg de comp. puro).	
4	viales	Cyanobacteria (Schizothrix sp. (contenido 0.05mg de comp. puro).	
1	vial	Cyanobacteria (Symploca sp.) Contenido de 0.05mg de compuesto puro.	

PAIS DE ORIGEN Panama	PAIS DE PROCEDENCIA Panama	LUGAR DE SALIDA Tocumen	FRACCION ARANCELARIA	PAIS DE DESTINO USA
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION
VicomexFECHA DE EMISION
18-09-06

Dalia Vasquez
FIRMA

REPUBLICA DE PANAMA 	Autoridad Nacional del Ambiente  anam Apartado C, Zona 0843, Balboa, Ancón, Panamá	PERMISO CIENTÍFICO SCIENTIFIC PERMIT No. SEX/B-12-06 VALIDO HASTA: 2007-02-20 VALID UNTIL FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS BACTERIAS
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá		EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) JENNIFER KEPLER Scripps Institution of Oceanography, UCSD 8615 Discovery Way, 3236 La Jolla, CA 92037, U.S.A.		
PUERTO DE SALIDA O ENTRADA TRANSPORTE PORT OF EXIT OR ENTRANCE CARRIER Aeropuerto Internacional de Tocumen		
PROPOSITO PURPOSE Esta exportación se realiza con fines científicos de estudios de identificación taxonómica.		
NOMBRE COMUN COMMON NAME Cianobacterias	NOMBRE CIENTÍFICO SCIENTIFIC NAME Lyngbya sp.	CANTIDAD QUANTITY 3 Frascos DESCRIPCIÓN DESCRIPTION De 50 ml. de agua de mar de sol. salina
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2006-11-20 DATE		  ALEIDA SALAZAR Directora de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.		
THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY		



REPUBLICA DE PANAMA

56055

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

PERMISO FITO-ZOOSANITARIO DE EXPORTACION.

VIGENCIA: DESDE 27/11/06

HASTA 27/01/07

EL QUE SUSCRIBE: DRA. ANALEIDA MORON

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS

Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN

CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE PERMISIÓN.

IMPORTADOR, CIP O RUC: NOMBRE O RAZON SOCIAL: JENNIFER KEPLER DOMICILIO: Scripps Inst. of Oceanography, UCSD 8615 Discovery Way, 3236, La jolla, CA 92037 U.S.A. APDO: TEL: FAX:	EXPORTADOR, CIP O RUC: NOMBRE O RAZON SOCIAL: CATHERINA CABALLERO DOMICILIO: Inst. Smithsonian- Panama APDO: TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
3	frascos	de cultivo de 50ml, con 15ml de solucion salina de la especie de Cianobacteria Lyngbia majuscula	





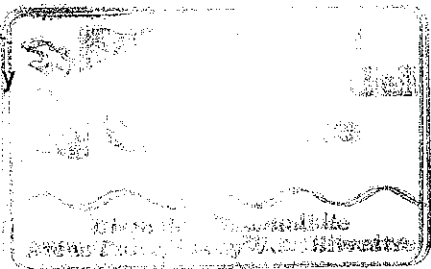

27 NOV 2006

PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA DOCUMENTO	FRACCION ARANCELARIA	PAIS DE DESTINO U.S.A.
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION: VICOMEX
FECHA DE EMISION: 27/11/06

[Signature]
FIRMA

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  anam Apartado C, Zona 0843, Balboa, Ancón, Panamá		PERMISO CIENTIFICO SCIENTIFIC PERMIT No. SEX/B-13-06 VALIDO HASTA: 2007-03-12 VALID UNTIL FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS BACTERIAS	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá			EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION 858072265179		
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) TODD CAPSON Scripps Institution of Oceanography, University of California at San Diego 9500 Gilman Drive, MC 0212., U.S.A.					
PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Estas muestras serán exportadas para ser preparadas en los Estados Unidos y luego traerlas a Panamá, para ser evaluadas por el INDICASAT.					
NOMBRE COMUN COMMON NAME Cianobacterias		NOMBRE CIENTIFICO SCIENTIFIC NAME Leptolyngbya spp.		CANTIDAD QUANTITY 5 litros	DESCRIPCIÓN DESCRIPTION En una bolsa plástica con agua de mar
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2006-12-12 DATE			  ALEIDA SALAZAR Directora de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO		
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO. THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					



REPUBLICA DE PANAMA

56343

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DIRECCION GENERAL DE FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA: DESDE 19/12/06

HASTA 19/02/07

QUE SUSCRIBE: DRA. ANALEIDA MORON

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE CERTIFICACION.

IMPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: TODD CAPSON DOMICILIO: Scripps Inst. of Oceanography, University of California at San Diego 9500 Gilma Drive, MC 0212 U.S.A. APDO:	EXPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: CATHERINA CABALLERO DOMICILIO: Instituto Smithsonian de Investigaciones Tropicales PANAMA APDO:
TEL:	FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
5	litros	Cianobacteria Leptolyngbya spp. - (en una bolsa plastica con agua de mar)	



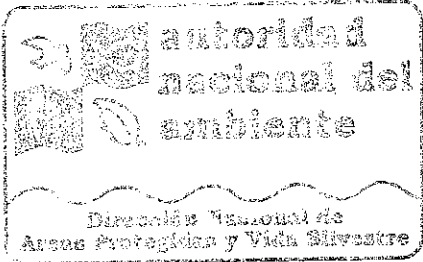



PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO U.S.A.
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997). LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

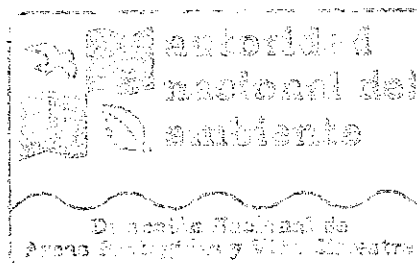
LUGAR DE EMISION: VICOMEX
FECHA DE EMISION: 19/12/06





[Signature]
FIRMA

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  anam Apartado C, Zona 08-43, Balboa, Ancón, Panamá		PERMISO CIENTÍFICO SCIENTIFIC PERMIT No. SEX/B-14-06 VALIDO HASTA: 2007-03-14 VALID UNTIL FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS BACTERIAS	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá			EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION		
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) ROGER LININGTON Scripps Institution of Oceanography, University of California at San Diego La Jolla, CA 92093-0212, U S A.			858072265238		
PUERTO DE SALIDA O ENTRADA TRANSPORTE PORT OF EXIT OR ENTRANCE CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Esta exportación se realiza con el fin de que el Scripps Intitución de Oceanografía realice estudios complementarios a los de cáncer que realiza el INDICASAT en Panamá.					
NOMBRE COMUN COMMON NAME Cianobacteria		NOMBRE CIENTÍFICO SCIENTIFIC NAME Cianobacteria sp.		CANTIDAD QUANTITY —	DESCRIPCIÓN DESCRIPTION EXTRACTOS (VER LISTA ADJUNTA)
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2006-12-14 DATE			  ALEIDA SALAZAR Directora de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO		
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					

Lista de extractos y compuestos que se desea exportar

Compuesto	Nombre	Puro?	Peso	Uso
RGL1610G3	Mantillamide A	Si	4.2mg	Análisis de estereoquímica y RMN
RGL1610G4B	Mantillamide B	Si	1.1mg	Análisis de estereoquímica y RMN
RGL1610G4C	Mantillamide C	Si	1.4mg	Análisis de estereoquímica y RMN
RGL1610G4D	Mantillamide D	Si	1.2mg	Análisis de estereoquímica y RMN
RGL1610G2	Mantillamide E	Si	0.7mg	Análisis de estereoquímica y RMN
RGL1610G	-	No	320mg	Fracción de VLC para purificación de HPLC
RGL1607F1B	Venturamide A	Si	1.3mg	Análisis de bioensayo en cáncer que no hay en Panamá
RGL1607G1B	Venturamide B	Si	0.6mg	Análisis de bioensayo en cáncer que no hay en Panamá
RGL1617G5B	Toronomide A	Si	1.6mg	Análisis de RMN a 800 MHz (que no hay en Panamá)
RGL1617G4	Malyngamide C	Si	31mg	Para bioensayo avanzado en cáncer
RGL1611F1B	Gallinamide A	Si	3.4mg	Análisis de estereoquímica y RMN
RGL1620I12B	Bastimolide A	Si	12.8mg	Análisis de estereoquímica y RMN
RGL1620I12B1C	Bastimolide A acetate	Si	2.1mg	Análisis de estereoquímica y RMN
RGL1629E1E	Malyngamide C acetate	Si	140mg	Análisis avanzado de bioensayo en cáncer que no hay en Panamá
RGL1627H3B	Almiramide A	Si	6mg	Análisis de estereoquímica y RMN
RGL1627H3C	Almiramide B	Si	8mg	Análisis de estereoquímica y RMN
RGL1627H4B	Almiramide C	Si	1.2mg	Análisis de estereoquímica y RMN
RGL1627H4C	Almiramide D	Si	0.8mg	Análisis de estereoquímica y RMN
PAP-04-OCT-05-1	Lyngbya sp.	No	1g	Muestra para el determinación de la taxonomía
PAP-04-OCT-05-2	Schizothrix sp.	No	1g	Muestra para el determinación de la taxonomía
PAB-06-NOV-05-1	Symploca sp.	No	1g	Muestra para el determinación de la taxonomía
PAB-09-APR-05-6	Lyngbya sp.	No	1g	Muestra para el determinación de la taxonomía
PAB-27-JUL-06-6	Lyngbya sp.	No	1g	Muestra para el determinación de la taxonomía



<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C. Zona 0843. Balboa. Ancón Panamá</p>	<p>PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX/B-2-09</u></p> <p>VALIDO HASTA: <u>2009-08-25</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>William Gerwick Instituto Smithsonian de Investigaciones Tropicales, Panamá</p>		<p>EXPORTACION RE- EXPORTACION EXPORT RE- EXPORT IMPORTACION RE-IMPORTACION RE- IMPORT IMPORT RE- TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p> <p>867877175793</p>	
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>William Gerwick Center for Marine Biotechnology and Biomedicine Scripps Institution of Oceanography , U S A</p>			
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Fines científicos para análisis</p>			
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTÍFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>
<p>Cianobacterias</p>	<p>Lyngbya</p>	<p>0.5mg</p>	<p>5 viales</p>
<p>Cianobacteria</p>	<p>Symploca</p>	<p>0.5 mg</p>	<p>1 vial</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2009-05-25 DATE</p> 		 <p>ALEIDA SALAZAR Directora de Areas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			



REPUBLICA DE PANAMA

88227

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
03-08-09HASTA
03-10-09

EL QUE SUSCRIBE:

ING. DALIA VASQUEZ

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA

IMPORTADOR; CIP O RUC: WILLIAM GERWICK Center for Marine Biotechnology and Biomedicine ABRE O RAZON SOCIAL: Scripps Institution of Oceanography	EXPORTADOR; CIP O RUC: WILLIAM GERWICK Instituto Smithsonian de Investigaciones Tropicales NOMBRE O RAZON SOCIAL: Tropicales
DOMICILIO: U.S.A	DOMICILIO: PANAMA
APDO: TEL: FAX:	APDO: TEL: FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
2	UNIDADES	DE MUESTRAS DE ANALISIS PARA FINES CIENTIFICAS 0.5 mg CIANOBACTERIAS (LYNGBYA 5 VIALES) 0.5 mg CIANOBACTERIAS (SYMPLOCA 1 VIAL)	

PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA

PAIS DE DESTINO

U.S.A

ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION

VICOMEX

FECHA DE EMISION

03-08-09

Dalia Vasquez
FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/B-3-06</u></p> <p>VALIDO HASTA: 2006-07-04 VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>BACTERIAS</p>
---	---	---

TITULAR (NOMBRE Y DIRECCIONES - PAIS)
CONSIGNOR (NAME AND ADDRESS - COUNTRY)

HARALD GROSS
INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES,
Panamá

EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT
IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT
TRANSITO TRANSIT	OTROS OTHERS

EXPORTACION

DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS)
CONSIGNEE (NAME AND ADDRESS - COUNTRY)

HARALD GROSS
Center for Marine Biotechnology and Biomedecine, Univ. of California at San Diego, MC0212, California., U.S.A.

PUERTO DE SALIDA O ENTRADA / TRANSPORTE
PORT OF EXIT OR ENTRANCE / CARRIER

Aeropuerto Internacional de Tocumen

PROPOSITO
PURPOSE

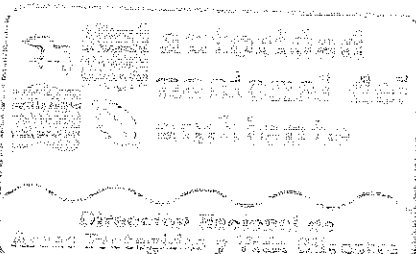
Se extraerán las cianobacterias en el Scripps Institution of Oceanography y enviados a INDICASAT (SENACYT), para la realización de Bioensayos.

NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCION DESCRIPTION
Cyanobacteria	Cyanobacteria spp.	VER LISTA	las sp. que están en 1250 mL de agua

ESTE PERMISO ES EMITIDO POR:
THIS PERMIT IS ISSUED BY:

Dirección Nacional de Áreas Protegidas y Vida Silvestre

FECHA: 2006-04-04
DATE



Aleida Salazar
ALEIDA SALAZAR
Directora Nacional de Áreas Protegidas y Vida Silvestre

FIRMA RESPONSABLE Y SELLO

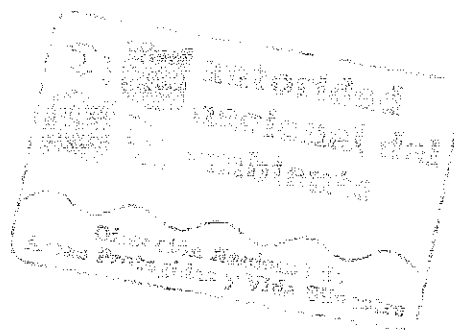
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO

THIS PERMIT MUST BE ACCOMPANIED BY A QUARANTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTER

Lista de Especies para Exportación

Todas las muestras estan en 50 mL de agua de mar.

1. *Lyngbya* sp (1) cultivo de 50 mL
2. *Lyngbya* sp (2) cultivo de 50 mL
3. *Lyngbya* sp (3) cultivo de 50 mL
4. *Symploca* sp (1) cultivo de 50 mL
5. *Symploca* sp (2) cultivo de 50 mL
6. *Symploca* sp (3) cultivo de 50 mL
7. *Symploca* sp (4) cultivo de 50 mL
8. *Schizothrix* sp (1) cultivo de 50 mL
9. *Schizothrix* sp (2) cultivo de 50 mL
10. *Schizothrix* sp (3) cultivo de 50 mL
11. *Schizothrix* sp (4) cultivo de 50 mL
12. *Oscillatoria* sp (1) cultivo de 50 mL
13. *Oscillatoria* sp (2) cultivo de 50 mL
14. *Symploca* sp (5) cultivo de 50 mL
15. *Symploca* sp (6) cultivo de 50 mL
16. *Symploca* sp (7) cultivo de 50 mL
17. *Schizothrix* sp (5) cultivo de 50 mL
18. *Schizothrix* sp (6) cultivo de 50 mL
19. *Schizothrix* sp (7) cultivo de 50 mL
20. *Schizothrix* sp (8) cultivo de 50 mL
21. *Phormidium* sp (1) cultivo de 50 mL
22. *Lyngbya* sp (4) cultivo de 50 mL
23. *Lyngbya* sp (5) cultivo de 50 mL
24. *Lyngbya* sp (6) cultivo de 50 mL
25. *Lyngbya* sp (7) cultivo de 50 mL





REPUBLICA DE PANAMA

72655

MINISTERIO DE DESARROLLO AGROPECUARIO DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DIRECCION GENERAL DE FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE

07/04/06

HASTA

07/06/06

QUE SUSCRIBE:

DRA. ANALEIDA MORON

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA AGROPECUARIA,

Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN, CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE AUTORIZACION.

IMPORTADOR; CIP O RUC:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

NOMBRE O RAZON SOCIAL:

HARALD GROSS

HARALD GROSS

DOMICILIO: Center for marine Biotechnology and Biomedicine, Univ. California, MC0212 U.S.A.

DOMICILIO: INST. SMITHSONIAN PANAMA

APDO.:


TEL.:

FAX:

APDO.:

TEL.:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
96		cultivos de cyanobacteria spp- en 1250 ml de agua	 07 ABR 2006

PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA



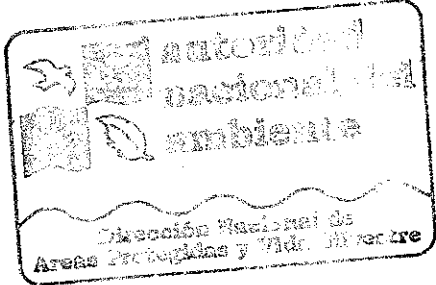
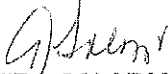
PAIS DE DESTINO

U.S.A.

SE DEBE PRESENTAR JUNTO CON ESTE DOCUMENTO LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION

FECHA DE EMISION

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. SEX/B-3-08</p> <p>VALIDO HASTA: 2008-11-11 VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>BACTERIAS</p>																
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>LUIS CUBILLAS-RIOS INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES (ICBG), Panamá</p>		<table border="1"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p> <p>865118380135</p>	EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS										
EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT																	
IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT																	
TRANSITO TRANSIT	OTROS OTHERS																	
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>MARCY BALUNAS Center for Marine Biotechnology and Biomedicine, University of California at San Diego., U S A</p>																		
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>																		
<p>PROPOSITO PURPOSE</p> <p>Esta exportación se realiza con el fin de efectuar análisis para contribuir en el desarrollo de metodologías efectivas para el descubrimiento de medicamentos en el bosque tropical panameño en una manera que promueva la conservación de la biodiversidad.</p>																		
<table border="1"> <thead> <tr> <th>NOMBRE COMUN COMMON NAME</th> <th>NOMBRE CIENTIFICO SCIENTIFIC NAME</th> <th>CANTIDAD QUANTITY</th> <th>DESCRIPCIÓN DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>Cianobacterias</td> <td>Lyngbya sp.</td> <td>0.2 mg</td> <td>Compuesto aislado N° 1</td> </tr> <tr> <td>Cianobacterias</td> <td>Lyngbya sp.</td> <td>0.5 mg</td> <td>Compuesto aislado N° 2</td> </tr> <tr> <td>Cianobacterias</td> <td>Lyngbya sp.</td> <td>0.5 mg</td> <td>Compuesto aislado N° 3</td> </tr> </tbody> </table>	NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION	Cianobacterias	Lyngbya sp.	0.2 mg	Compuesto aislado N° 1	Cianobacterias	Lyngbya sp.	0.5 mg	Compuesto aislado N° 2	Cianobacterias	Lyngbya sp.	0.5 mg	Compuesto aislado N° 3		
NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION															
Cianobacterias	Lyngbya sp.	0.2 mg	Compuesto aislado N° 1															
Cianobacterias	Lyngbya sp.	0.5 mg	Compuesto aislado N° 2															
Cianobacterias	Lyngbya sp.	0.5 mg	Compuesto aislado N° 3															
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2008-08-11 DATE</p> 	 <p>ALEIDA SALAZAR Directora de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>																	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>																		



REPUBLICA DE PANAMA

89901

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE

18-08-08

HASTA

18-10-08

EL QUE SUSCRIBE:

ING. DAI IA VASQUEZ

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA

IMPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: MARCY BAI UNAS/ CENTER FOR MARINE AND BIOMEDICINE UNIV. OF CALIFORNIA SAN DIEGO DOMICILIO: USA APDO: TEL: FAX:	EXPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: IUIS CUBI IAS RIOS INS. SMITHSONIAN INSTITUTION DE INVESTIGACIONES TROPICALES (IIBG). DOMICILIO: PANAMA APDO: TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
0.2 ng		compuesto aislado de cianobacterias (Lyngbya sp.).	
0.5 ng		compuesto N2 aislado de cianobacterias (Lyngbya sp.)	
0.5 ng		compuesto N3 de cianobacterias (Lyngbya sp.).	

PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOJUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO USA
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.



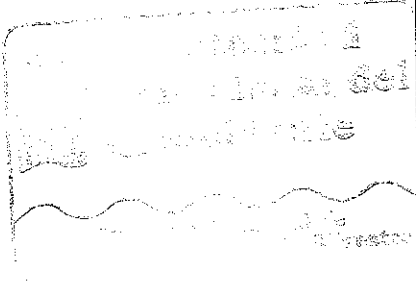

LUGAR DE EMISION

VIJOMEX

FECHA DE EMISION

18-08-08

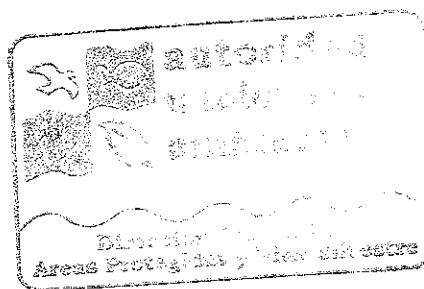
Dai Ia Vasquez
FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/B-4-06</u></p> <p>VALIDO HASTA: <u>2006-08-05</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>BACTERIAS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES, Proyecto ICBG., Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Scripps Institution of Oceanography, University of California at San Diego California 92093-0212, U S A</p>		<p>EXPORTACION EXPORT RE-EXPORTACION RE-EXPORT IMPORTACION RE-IMPORTACION RE-IMPORT TRANSITO TRANSIT OTROS OTHERS</p> <p>EXPORTACION</p>	
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Hacer extractos para luego traerlas a Panamá y ser preparadas en el Instituto de Investigaciones Científicas Avanzadas y Servicios de Alta Tecnología (INDICASAT), en la Ciudad de Panamá</p>			
<p>NOMBRE COMUN COMMON NAME</p> <p>Cyanobacterias</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p> <p>Cyanobacterias spp. (En Alcohol)</p>	<p>CANTIDAD QUANTITY</p> <p>13.4 ml</p>	<p>DESCRIPCION DESCRIPTION</p> <p>Ver Lista Adjunta</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2006-05-05 DATE</p> 		 <p>ALEIDA SALAZAR Directora Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

Lista de especies que se desea exportar

La cantidad a exportar en todos los casos es entre 0.8 a 4.3 litros del organismo en una mezcla de agua y alcohol.

1. <i>Lyngbya majuscula</i> (1)	1.2 L
2. <i>Lyngbya majuscula</i> (2)	1.0 L
3. <i>Lyngbya</i> sp. 6	4.3 L
4. <i>Lyngbya</i> sp. 8	0.8 L
5. <i>Lyngbya</i> sp. 13	0.25 L
6. <i>Lyngbya</i> sp. 9	0.25 L
7. <i>Calothrix</i> sp. 1	0.20 L
8. desconocida sp. 1	0.40 L
9. <i>Leptolyngbya</i> sp. 3	4.0 L
10. desconocida sp. 2	1.0 L





REPUBLICA DE PANAMA

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No SOLICITUD

No. AUTORIZACION

DESDE
11/05/06

HASTA
11/07/06

DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA
DIRECCION FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

QUE SUSCRIBE: DRA. ANAI EIDA MORON

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS
Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN
CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE
CERTIFICACION.

IMPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: TODD CAPSON DOMICILIO: University of California at San Diego, California 92093-0212 U.S.A. APDO: TEL: FAX:	EXPORTADOR; CIP O RUC: NOMBRE O RAZON SOCIAL: CATHERINA CABALLERO DOMICILIO: Inst. Smithsonian- Panama APDO: TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
13.4	ml	cyanobacterias en alcohol (ver lista)	



PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO U.S.A.
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL ASI COMO
DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO QUE ACREDITAN EL
CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION
VICOMEX

FECHA DE EMISION
11/05/06

[Signature]
FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/B-5-06</u></p> <p>VALIDO HASTA: 2006-09-19 VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>BACTERIAS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES, Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Center for Marine Biotechnology and Biomedecine (SIO), University of California at San Diego., U.S.A.</p>		<p>EXPORTACION EXPORT RE-EXPORTACION RE-EXPORT IMPORTACION RE-IMPORTACION RE-IMPORT TRANSITO TRANSIT OTROS OTHERS</p> <p>EXPORTACION</p>	
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Realizar bioensayos que indiquen la presencia de sustancias que tengan actividad contra cáncer y enfermedades tropicales.</p>			
<p>NOMBRE COMUN COMMON NAME</p> <p>Cyanobacteria</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p> <p>Cyanobacteria spp.</p>	<p>CANTIDAD QUANTITY</p> <p>20 Litros</p>	<p>DESCRIPCIÓN DESCRIPTION</p> <p>VER LISTA ADJUNTA</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2006-06-19 DATE</p> 		<p><i>Aleida Salazar</i></p> <p>ALEIDA SALAZAR Directora Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

Lista de organismos que se desea exportar

La cantidad a exportar en todos los casos es entre 2 a 6 litros del organismo en una mezcla de agua y alcohol.

1. <i>Lyngbya majuscula</i>	2 L
2. <i>Lyngbya sp. 6</i>	2 L
3. <i>Lyngbya sp. 8</i>	4 L
4. <i>Schizothrix sp.3</i>	6 L
5. <i>Symplocca sp.2</i>	6 L



REPUBLICA DE PANAMA

45080

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DIRECCION GENERAL DE FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE

22/06/06

HASTA

22/08/05

QUE SUSCRIBE:

DR. REINALDO VIVEROS

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBE CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE AUTORIZACION.

IMPORTADOR; CIP O RUC:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

NOMBRE O RAZON SOCIAL:

TODD CAPSON

CATHERINA CABALLERO

DOMICILIO: Center for marine Biot. and Biomed. (SIO), University of California U.S.A.

DOMICILIO:

INST. SMITHSONIAN PANAMA

TEL:

TEL:

FAX:

TEL:

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
20	litros	Cyanobacteria spp. (ver lista adjunta)	





PAIS DE ORIGEN
PANAMAPAIS DE PROCEDENCIA
PANAMALUGAR DE SALIDA
TOCUMEN

FRACCION ARANCELARIA

PAIS DE DESTINO
U.S.A.

SE DEBE PRESENTAR JUNTO A ESTE DOCUMENTO LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION
VICOMEXFECHA DE EMISION
22/06/06

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  anam Apartado C, Zona 0843, Balboa, Ancón, Panamá		PERMISO CIENTÍFICO SCIENTIFIC PERMIT No <u>SEX/B-8-10</u> VALIDO HASTA: 2010-08-17 VALID UNTIL	
		FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS			
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) MARCELINO GUTIERREZ Panamá, Ciudad de Panamá, Panamá		EXPORTACION EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT. TRANSITO TRANSIT		RE-EXPORTACION RE-EXPORT RE-IMPORTACION RE-IMPORT. OTROS OTHERS EXPORTACION	
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) WILLIAM H. GERWICK Instituto Oceanografico Scripps-Universidad de California San Diego, U.S.A					
PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Análisis de muestras por resonancia magnética nuclear					
NOMBRE COMUN COMMON NAME Bacterias		NOMBRE CIENTÍFICO SCIENTIFIC NAME Bacterias Marinas		CANTIDAD QUANTITY 10	DESCRIPCIÓN DESCRIPTION Viales de 2 mg con compuestos aislados
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2010-05-17 DATE				 YESSENIA DEL C. GONZÁLEZ M Directora de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO	
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO. THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					



83787

REPUBLICA DE PANAMA

**MINISTERIO DE DESARROLLO AGROPECUARIO
 DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

20-05-10

DESDE 20-07-10

HASTA

DIRECCION GENERAL DE FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

 QUE SUSCRIBE: **DR. CLAUDIO SERRATO ID.180**

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS
 Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBE
 CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENT
 AUTORIZACION.

IMPORTADOR; CIP O RUC:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

**SCRIPPS INSTITUTION OF OCEANOGRAPHY
 EN LA UNIVERSIDAD DE SAN DIEGO CA.**

NOMBRE O RAZON SOCIAL:

**INST. SMITHSONIAN DE INVESTIGACIONES
 TROPICALES**

DOMICILIO:

U.S.A.

DOMICILIO:

PANAMA

TEL:

TEL:

FAX:

TEL:

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
0.5	KILOS	COMPUESTOS AISLADOS DE BACTERIAS MARINAS	


 PAIS DE ORIGEN
PANAMA

 PAIS DE PROCEDENCIA
PANAMA

 LUGAR DE SALIDA
TOCUMEN




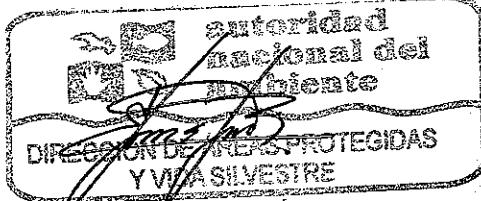
FRACCION ARANCELARIA

 PAIS DE DESTINO
U.S.A.

REUNIR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO
 PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
 LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN
 EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

VICEDIRECTOR DE EMISION

20-05-2010 FECHA DE EMISION

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C. Zona 0843 Balboa. Ancón. Panamá</p>	<p>PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/BH-9-11</u></p> <p>VALIDO HASTA: <u>2011-11-22</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>MARCELINO GUTIERREZ Ciudad de Panamá, Clayton, calle Guanabanas., Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>WILLIAM H. GERWICK Instituto Oceanográfico Scripps, Universidad de Californis San Diego, U.S.A.</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>	
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Análisis de muestras por espectrometría de masas.</p>			
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTÍFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2011-08-22</p> <p> Elaborado por: Alexander Montero</p>		<p> autoridad nacional del ambiente DIRECCION DE AREAS PROTEGIDAS Y VIDA SILVESTRE</p> <p>ING. EDGAR T. CHACÓN R. Director de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			



anam

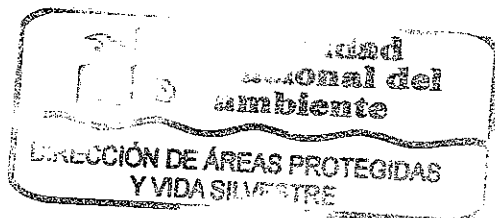
Autoridad Nacional del Ambiente

PERMISO CIENTÍFICO SCIENTIFIC PERMIT

No. SEX/-12-11

VALIDO HASTA: 2011-11-22
VALID UNTIL

NOMBRE COMUN COMMON NAME	NOMBRE CIENTÍFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Bacteria marina	Desconocido	0.5 g	Vial pequeño con la muestras.
Hongo Endófitos	Desconocido	0.5 g	Vial pequeño con la muestras.
Hongo Endófitos	Desconocido	0.5 g	Vial pequeño con la muestras.





REPUBLICA DE PANAMA

092758

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DESDE
31-8-2011

HASTA
31-10-2011

AGENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

QUE SUSCRIBE: ING MIGUEL VALLEIOS ID- 904-82

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA Y CON FUNDAMENTO EN LA LEY 23 DEL 15 JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACIÓN SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACIÓN POR LO CUAL SE LE EXTIENDE LA PRESENTE AUTORIZACION.

PORTADOR; CIP O RUC: NOMBRE O RAZÓN SOCIAL: UNIVERSIDAD DE CALIFORNIA SAN DIEGO DOMICILIO: WILLIAM H. GERWICK PAIS DE ORIGEN: ESTADOS UNIDOS FAX:	EXPORTADOR; CIP O RUC: NOMBRE O RAZÓN SOCIAL: INSTITUTO SMITHSONIA DE INVESTIGACIONES DOMICILIO: TOCUMEN/TROPICALES/MARCELINO GUTIERREZ PAIS DE ORIGEN: PANAMA TEL.: FAX:
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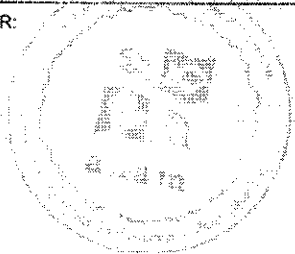

QUANTIDAD	UNID. DE MED.	DESCRIPCIÓN	FINALIDAD
0.0075	KGS	MUESTRAS DE BACTERIA MARINA	

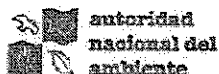
PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO ESTADOS UNIDOS
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CUMPLIR LOS REQUISITOS ESPECÍFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASÍ COMO PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACIÓN ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTE DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITO-ZOOSANITARIOS PARA EXPORTACIÓN.

LUGAR DE EMISION VICOMEX	FECHA DE EMISION 31-8-2011
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[Handwritten Signature]
FIRMA

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  Apartado C, Zona 0843, Balboa, Ancón, Panamá		PERMISO CIENTIFICO SCIENTIFIC PERMIT No <u>SEX/BP-2-10</u> VALIDO HASTA: 2010-04-30 VALID UNTIL	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) MARCY BALUNAS Instituto Smithsonian de Investigaciones Tropicales, Balboa - Ancon, Panamá		EXPORTACION EXPORT IMPORTACION IMPORT TRANSITO TRANSIT		RE-EXPORTACION RE-EXPORT RE-IMPORTACION RE-IMPORT OTROS OTHERS EXPORTACION	
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) MARCY BALUNAS Scripps Institution of Oceanography University of California San Diego, U.S.A.					
PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Para análisis para estudios de química de producto naturales.					
NOMBRE COMUN COMMON NAME		NOMBRE CIENTIFICO SCIENTIFIC NAME		CANTIDAD QUANTITY	
Macroalgas		Macroalgae spp.		-----	
Cyanobacterias		Cyanobacterias spp.		-----	
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2010-01-30 DATE				 YESSENIA DEL C. GONZALEZ MUÑOZ Directora FIRMA RESPONSABLE Y SELLO	
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					



AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCIÓN DE ÁREAS PROTEGIDAS Y VIDA SILVESTRE
DEPARTAMENTO DE BIODIVERSIDAD Y VIDA SILVESTRE

No SEX/BP-2-10

VALIDO HASTA: 2010-04-30

Lista Adjunta de Muestras a Exportar

Nombre Común	Nombre Científico	Cantidad (g)
Cianobacterias	<i>Lyngbya majuscula</i>	100
	<i>Lyngbya semiplena</i>	100
	<i>Lyngbya penicilliformis</i>	50
	<i>Lyngbya polychroa</i>	50
	<i>Lyngbya bouilloni</i>	100
	<i>Lyngbya sp</i>	100
	<i>Schizothrix sp.</i>	100
	<i>Symploca sp</i>	100
	<i>Oscillatoria sp.</i>	100
	<i>Phormidium sp.</i>	100
	<i>Rivularia sp</i>	50
	<i>Calothrix sp.</i>	50
	<i>Apirocoleus sp</i>	50
Macroalgas	<i>Tydemania expeditionis</i>	50
	<i>Udotea géppii</i>	50
	<i>Neomaris sp.</i>	50
	<i>Dictyota sp.</i>	50
	<i>Lobophora sp.</i>	100
	<i>Styopodium sp.</i>	100
	<i>Laurencia sp.</i>	100
	<i>Zellera sp.</i>	50
	<i>Peyssonnelia sp.</i>	50



REPUBLICA DE PANAMA

92237

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

Nº. SOLICITUD

Nº. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
05-02-2010HASTA
05-04-2010

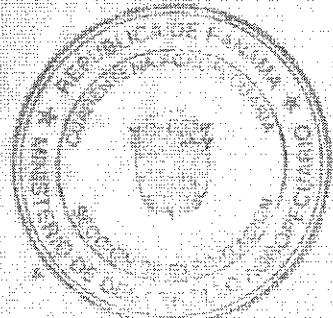
EL QUE SUSCRIBE:

ING. DONALINO MARTINEZ.

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA/

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA.

IMPORTADOR: CIP O RUC: MARCY BALUNAS NOMBRE O RAZÓN SOCIAL: Scripps Institución of Oceanography Universidad of California San Diego DOMICILIO: U.S.A APDO: TEL: FAX:	EXPORTADOR: CIP O RUC: MARCY BALUNAS NOMBRE O RAZÓN SOCIAL: Instituto Smithsonian de Investigaciones Tropicales, Balboas - Ancon DOMICILIO: PANAMA APDO: TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
		MUESTRAS DE CIANOBACTERIAS Y MICROALGAS SEX/ BP 2-10, 3-10, 4-10 VER LISTADO ADJUNTO	

PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO U.S.A
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)


LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION

LUGAR DE EMISION

VICOMEX

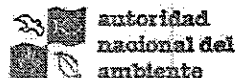
FECHA DE EMISION

05-02-2010



FIRMA

REPUBLICA DE PANAMA 	Autoridad Nacional del Ambiente  Apartado C, Zona 0843, Balboa, Ancón, Panamá	PERMISO CIENTIFICO SCIENTIFIC PERMIT No <u>SEX/BP-21-10</u> VALIDO HASTA: <u>2010-09-23</u> VALID UNTIL FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS FLORA	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) WILLIAM GERWICK Instituto Smithsonian de Investigaciones Tropicales, balboa- Ancon , Panamá		EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION	
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) WILLIAM GERWICK University of california San Diego 9500 Gilman Drive, MC 0212, U.S.A.			
PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen			
PROPOSITO PURPOSE Estudios químicos de productos naturales.			
NOMBRE COMUN COMMON NAME Macroalgas Cianobacterias	NOMBRE CIENTIFICO SCIENTIFIC NAME Macroalgae spp. Cianobacterias spp.	CANTIDAD QUANTITY 450 gr. 1050 gr.	DESCRIPCION DESCRIPTION Ver Lista Adjunta Ver Lista Adjunta
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2010-06-22 DATE 		 YESSENIA DEL C. GONZÁLEZ M. Directora de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO	
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY			



AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCION DE AREAS PROTEGIDAS Y VIDA SILVESTRE
DEPARTAMENTO DE BIODIVERSIDAD Y VIDA SILVESTRE

PERMISO CIENTÍFICO
SCIENTIFIC PERMIT
No. SEX/BP-21-10
VALIDO HASTA: 23-09-2010

LISTA ADJUNTA A EXPORTAR

Nombre común	Nombre Científico	Cantidad	Descripción
Cianobacteria	<i>Lyngbya majuscula</i>	100	Gramos
Cianobacteria	<i>Lyngbya semiplena</i>	100	Gramos
Cianobacteria	<i>Lyngbya penicilliformis</i>	50	Gramos
Cianobacteria	<i>Lyngbya polychroa</i>	50	Gramos
Cianobacteria	<i>Lyngbya bouillonii</i>	100	Gramos
Cianobacteria	<i>Lyngbya sp.</i>	100	Gramos
Cianobacteria	<i>Schizothrix sp.</i>	100	Gramos
Cianobacteria	<i>Symploca sp.</i>	100	Gramos
Cianobacteria	<i>Oscillatoria sp.</i>	100	Gramos
Cianobacteria	<i>Phormidium sp.</i>	100	Gramos
Cianobacteria	<i>Rivularia sp.</i>	50	Gramos
Cianobacteria	<i>Calothrix sp.</i>	50	Gramos
Cianobacteria	<i>Spirocoleus sp.</i>	50	Gramos
Macroalgas	<i>Tydemania expeditionis</i>	50	Gramos
Macroalgas	<i>Udotea geppii</i>	50	Gramos
Macroalgas	<i>Neomaris sp.</i>	50	Gramos
Macroalgas	<i>Dictyota sp.</i>	100	Gramos
Macroalgas	<i>Lobophora sp.</i>	100	Gramos
Macroalgas	<i>Stypopodium sp.</i>	100	Gramos
Macroalgas	<i>Laurencia sp.</i>	100	Gramos
Macroalgas	<i>Zellera sp.</i>	50	Gramos
Macroalgas	<i>Peyssonnelia sp.</i>	50	Gramos



84376

REPUBLICA DE PANAMA

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
25-06-2010

HASTA
25-08-2010

EL QUE SUSCRIBE:

ING. DONALINO MARTINEZ

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA

IMPORTADOR: CIP O RUC: NOMBRE O RAZON SOCIAL: WILLIAM GERWICK, University of California San Diego, 9500 DOMICILIO: Gilman drive, mc0212 la Jolla.	EXPORTADOR: CIP O RUC: NOMBRE O RAZON SOCIAL: WILLIAM GERWICK, University Instituto Smithsonian de DOMICILIO: Investigaciones Tropicales, Balboas -- Ancon
APDO: U.S.A FAX:	APDO: PANAMA TEL: FAX:



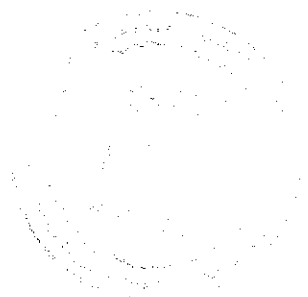

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
1.05	kilos	MUESTRAS DE CIANOBACTERIAS	
0.65	kilos	MUESTRA DE MACROALGAS	
		VER LISTADO ADJUNTO	

PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO U.S.A
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997). LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION

LUGAR DE EMISION VICOMEX	FECHA DE EMISION 25-06-2010
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Donalino Martinez
FIRMA

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  anam Apartado C. Zona 0843 Balboa. Ancón, Panamá		PERMISO CIENTÍFICO SCIENTIFIC PERMIT No. <u>SEX/BP-23-10</u> VALIDO HASTA: <u>2010-09-23</u> VALID UNTIL	
				FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS FLORA	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) KEVIN TIDGEWELL Instituto Smithsonian de Investigaciones Tropicales, balboa-Ancon., Panamá			EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION		
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) WILLIAM GERWICK University of California san Diego, 9500 Gilman Drive, MC0212 La Jolla., U.S.A.			869287550787		
PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Utilizadas en estudios de química de productos naturales.					
NOMBRE COMUN COMMON NAME		NOMBRE CIENTÍFICO SCIENTIFIC NAME		CANTIDAD QUANTITY	
Macroalgas		Macroalgae spp.		650 gr.	
Cianobacterias		Cianobacterias (VER LISTA ADJUNTA)		1050 gr.	
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2010-06-22 DATE			  YESSENIA DEL C. GONZÁLEZ M. Directora de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO		
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					

AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCION DE AREAS PROTEGIDAS Y VIDA SILVESTRE
DEPARTAMENTO DE BIODIVERSIDAD Y VIDA SILVESTRE

PERMISO CIENTÍFICO
SCIENTIFIC PERMIT
No. SC/BP-23-10
VALIDO HASTA: 23-09-2010



LISTA ADJUNTA A EXPORTAR

Nombre común	Nombre Científico	Cantidad	Descripción
Cianobacteria	<i>Lyngbya majuscula</i>	100	Gramos
Cianobacteria	<i>Lyngbya semiplena</i>	100	Gramos
Cianobacteria	<i>Lyngbya penicilliformis</i>	50	Gramos
Cianobacteria	<i>Lyngbya polychroa</i>	50	Gramos
Cianobacteria	<i>Lyngbya bouillonii</i>	100	Gramos
Cianobacteria	<i>Lyngbya sp.</i>	100	Gramos
Cianobacteria	<i>Schizothrix sp.</i>	100	Gramos
Cianobacteria	<i>Symploca sp.</i>	100	Gramos
Cianobacteria	<i>Oscillatoria sp.</i>	100	Gramos
Cianobacteria	<i>Phormidium sp.</i>	100	Gramos
Cianobacteria	<i>Rivularia sp.</i>	50	Gramos
Cianobacteria	<i>Calothrix sp.</i>	50	Gramos
Cianobacteria	<i>Spirocoleus sp.</i>	50	Gramos
Macroalgas	<i>Tydemania expeditionis</i>	50	Gramos
Macroalgas	<i>Udotea geppii</i>	50	Gramos
Macroalgas	<i>Neomaris sp.</i>	50	Gramos
Macroalgas	<i>Dictyota sp.</i>	100	Gramos
Macroalgas	<i>Lobophora sp.</i>	100	Gramos
Macroalgas	<i>Styopodium sp.</i>	100	Gramos
Macroalgas	<i>Laurencia sp.</i>	100	Gramos
Macroalgas	<i>Zellera sp.</i>	50	Gramos
Macroalgas	<i>Peyssonmelia sp.</i>	50	Gramos



REPUBLICA DE PANAMA

84375

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

AGENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
25-06-2010HASTA
25-08-2010

QUE SUSCRIBE:

ING. DONALINO MARTINEZ

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SEMIPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE AUTORIZACION.

IMPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

WILLIAM GERWICK
University of California San Diego, 9500

DOMICILIO: Gilman drive, mc0212 la Jolla.

APDO:

TEL: U.S.A

FAX:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

KEVIN TIDGEWELL
University Instituto Smithsonian de
Investigaciones Tropicales, Balboas --
Ancon

DOMICILIO:

APDO:

PANAMA

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
1.05	kilos	MUESTRAS DE CIANOBACTERIAS	
0.65	kilos	MUESTRA DE MACROALGAS	
		VER LISTADO ADJUNTO	

PAIS DE ORIGEN

PANAMA

PAIS DE PROCEDENCIA

PANAMA

LUGAR DE SALIDA

TOCUMEN

FRACCION ARANCELARIA

PAIS DE DESTINO

U.S.A

SE ADJUNTAN LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO SEMIPRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)

ESTA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.



LUGAR DE EMISION

VICOMEX

FECHA DE EMISION

25-06-2010

Donalino Martinez
FIRMA

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  Apartado C. Zona 0843. Balboa. Ancon. Panamá		PERMISO CIENTIFICO <small>SCIENTIFIC PERMIT</small> No. <u>SEX/BP-3-10</u> VALIDO HASTA: <u>2010-04-30</u> <small>VALID UNTIL</small>	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) <small>CONSIGNOR (NAME AND ADDRESS - COUNTRY)</small> MARCY BALUNAS Instituto Smithsonian de Investigaciones Tropicales, Balboa- Ancon., Panamá		EXPORTACION <small>EXPORT</small> RE-EXPORTACION <small>RE-EXPORT</small> IMPORTACION <small>IMPORT</small> TRANSITO <small>TRANSIT</small> OTROS <small>OTHERS</small> EXPORTACION		FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS	
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) <small>CONSIGNEE (NAME AND ADDRESS - COUNTRY)</small> MARCY BALUNAS Scripps Institution of Oceanography University of California San Diego, Panamá					
PUERTO DE SALIDA O ENTRADA / TRANSPORTE <small>PORT OF EXIT OR ENTRANCE / CARRIER</small> Aeropuerto Internacional de Tocumen					
PROPOSITO <small>PURPOSE</small> Para análisis para estudios de química de productos naturales					
NOMBRE COMUN <small>COMMON NAME</small>		NOMBRE CIENTIFICO <small>SCIENTIFIC NAME</small>		CANTIDAD <small>QUANTITY</small>	DESCRIPCION <small>DESCRIPTION</small>
Macroalgas		Macroalgae spp.		-----	Ver lista Adjunta
Cyanobacterias		Cyanobacterias spp.		-----	Ver Lista Adjunta
ESTE PERMISO ES EMITIDO POR: <small>THIS PERMIT IS ISSUED BY:</small> Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2010-01-30 <small>DATE</small>				 YESSENIA DEL C. GONZALEZ MUÑOZ Directora FIRMA RESPONSABLE Y SELLO	
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO <small>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</small>					

AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCIÓN DE ÁREAS PROTEGIDA Y VIDA SILVESTRE
DEPARTAMENTO DE BIODIVERSIDAD Y VIDA SILVESTRE

Nº SEX/BP-3-10

VALIDO HASTA: 2010-04-30

Lista Adjunta de Muestras a Exportar

Nombre Común	Nombre Científico	Cantidad (g)
Cianobacterias	<i>Lyngbya majuscula</i>	100
	<i>Lyngbya semiplena</i>	100
	<i>Lyngbya penicilliformis</i>	50
	<i>Lyngbya polychroa</i>	50
	<i>Lyngbya bouillonii</i>	100
	<i>Lyngbya sp</i>	100
	<i>Schizothrix sp.</i>	100
	<i>Symploca sp.</i>	100
	<i>Oscillatoria sp.</i>	100
	<i>Phormidium sp.</i>	100
	<i>Rivularia sp.</i>	50
	<i>Calothrix sp.</i>	50
	<i>Apirocoleus sp.</i>	50
Macroalgas	<i>Tydemania expeditionis</i>	50
	<i>Udotea geppii</i>	50
	<i>Neomaris sp.</i>	50
	<i>Dictyota sp.</i>	50
	<i>Lobophora sp.</i>	100
	<i>Styopodium sp.</i>	100
	<i>Laurencia sp.</i>	100
	<i>Zellera sp.</i>	50
	<i>Peyssonnelia sp.</i>	50



REPUBLICA DE PANAMA

92237

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

NO. SOLICITUD

NO. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

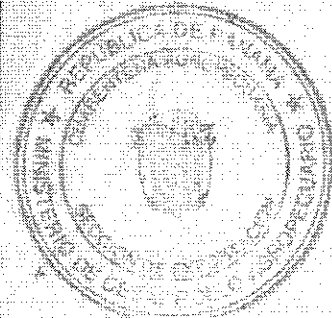
DESDE
05-02-2010HASTA
05-04-2010

EL QUE SUSCRIBE: **ING. DONALINO MARTINEZ.**

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA.

IMPORTADOR, CIP O RUC: MARCY BALUNAS NOMBRE O RAZON SOCIAL: Scripps Institución of Oceanography Universidad of California San Diego DOMICILIO: U.S.A APDO.: TEL.: FAX:	EXPORTADOR, CIP O RUC: MARCY BALUNAS NOMBRE O RAZON SOCIAL: Instituto Smithsonian de Investigaciones Tropicales, Balboas - Ancon DOMICILIO: PANAMA APDO.: TEL.: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
		MUESTRAS DE CIANOBACTERIAS Y MICROALGAS SEX/ BP 2-10, 3-10, 4-10 VER LISTADO ADJUNTO	

PAIS DE ORIGEN
PANAMA

PAIS DE PROCEDENCIA
PANAMA

LUGAR DE SALIDA
TOCUMEN

FRACCION ARANCELARIA

PAIS DE DESTINO
U.S.A

ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACION ADJUNTA INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION

LUGAR DE EMISION
VICOMEX

FECHA DE EMISION
05-02-2010

Donalino Martinez
FIRMA

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  Apartado C, Zona 0843 Balboa, Ancón, Panamá		PERMISO CIENTIFICO SCIENTIFIC PERMIT No <u>SEX/BP-4-10</u> VALIDO HASTA: <u>2010-04-30</u> VALID UNTIL	
				FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS FLORA	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) MARCY BALUNAS Instituto Smithsonian de Investigaciones Tropicales, Balboa- Ancón,, Panamá			EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION		
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) MARCY BALUNAS Scripps Institution of Oceanography University of California San Diego,, Panamá					
PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Para análisis para estudios de química de productos naturales.					
NOMBRE COMUN COMMON NAME		NOMBRE CIENTIFICO SCIENTIFIC NAME		CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION
Macroalgas		Macroalgae spp.		-----	Ver lista Adjunta
Cianobacteria		Cianobacteria sp.		-----	Ver lista Adjunta
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2010-01-30 DATE					 YESSENIA DEL C. GONZALEZ MUÑOZ Directora FIRMA RESPONSABLE Y SELLO
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					

AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCIÓN DE ÁREAS PROTEGIDA Y VIDA SILVESTRE
DEPARTAMENTO DE BIODIVERSIDAD Y VIDA SILVESTRE

No. SEX/BP-4-10

VALIDO HASTA: 2010-04-30

Lista Adjunta de Muestras a Exportar

Nombre Común	Nombre Científico	Cantidad (g)
Cianobacterias	<i>Lyngbya majuscula</i>	100
	<i>Lyngbya semiplena</i>	100
	<i>Lyngbya penicilliformis</i>	50
	<i>Lyngbya polychroa</i>	50
	<i>Lyngbya bouilloni</i>	100
	<i>Lyngbya sp</i>	100
	<i>Schizothrix sp.</i>	100
	<i>Symploca sp.</i>	100
	<i>Oscillatoria sp.</i>	100
	<i>Phormidium sp.</i>	100
	<i>Rivularia sp.</i>	50
	<i>Calothrix sp.</i>	50
	<i>Apirocoleus sp.</i>	50
	Macroalgas	<i>Tydemania expeditionis</i>
<i>Udotea geppii</i>		50
<i>Neomaris sp.</i>		50
<i>Dictyota sp.</i>		50
<i>Lobophora sp.</i>		100
<i>Styopodium sp.</i>		100
<i>Laurencia sp.</i>		100
<i>Zellera sp.</i>		50
<i>Peyssonnelia sp.</i>	50	



REPUBLICA DE PANAMA

92237

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

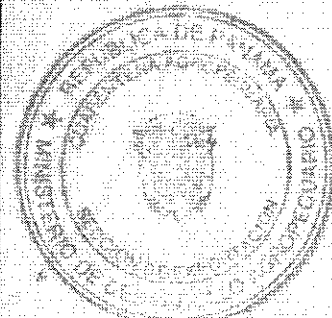
VIGENCIA:

DESDE
05-02-2010HASTA
05-04-2010EL QUE SUSCRIBE: **ING. DONALINO MARTINEZ.**

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA.

IMPORTADOR: CIP O RUC: MARCY BALUNAS NOMBRE O RAZON SOCIAL: Scripps Institución of Oceanography Universidad DOMICILIO: of California San Diego APDO: U.S.A TEL: FAX:	EXPORTADOR: CIP O RUC: MARCY BALUNAS NOMBRE O RAZON SOCIAL: Instituto Smithsonian de Investigaciones DOMICILIO: Tropicales, Balboas - Ancon APDO: PANAMA TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD
		MUESTRAS DE CIANOBACTERIAS Y MICROALGAS SEX/ BP 2-10, 3-10, 4-10 VER LISTADO ADJUNTO	

PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO U.S.A
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ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION VICOMEX	FECHA DE EMISION 05-02-2010
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Donalino Martinez
FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No <u>SEX/H-1-10</u></p> <p>VALIDO HASTA: <u>2010-04-29</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>HONGOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>LUIS CUBILLA RIOS Departamento de Química Orgánica, Universidad de Panamá, Panamá</p>		<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p> <p>869287550824</p>	
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>MARCY BALUNAS Center for Marine Biotechnology and Biomedicine University of California, San Diego, U.S.A.</p>			
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Para obtener datos espectroscópico y espectrometrico de compuestos puros</p>			
<p>NOMBRE COMUN COMMON NAME</p> <p>Hongos</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p> <p>Hongo Endófitos</p>	<p>CANTIDAD QUANTITY</p> <p>346</p>	<p>DESCRIPCIÓN DESCRIPTION</p> <p>mg de compuestos puros ver lista adjunta</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2010-01-28 DATE</p>		 <p>YESSENIA DEL C. GONZALEZ MUÑOZ Directora</p> <p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCIÓN DE AREAS PROTEGIDA Y VIDA SILVESTRE
DEPARTAMENTO DE BIODIVERSIDAD Y VIDA SILVESTRE

PERMISO CIENTÍFICO
SCIENTIFIC PERMIT
No SEX/H-1-10
VALIDO HASTA: 2010-04-29

Lista Adjunta de Muestras de Hongos Endófitos a Exportar

Nombre Común	Nombre Científico	Cantidad (mg)	Descripción
Hongos Endófitos (F2893-3-1)	<i>Taxonomía aún no determinada</i>	5 7	Aislado de begonia sp.
Hongos Endófitos (F2893-3-2)	<i>Taxonomía aún no determinada</i>	5	Aislado de begonia sp.
Hongos Endófitos (F2893-3-3)	<i>Taxonomía aún no determinada</i>	1 2	Aislado de begonia sp.
Hongos Endófitos (F2893-3-4)	<i>Taxonomía aún no determinada</i>	1	Aislado de begonia sp.
Hongos Endófitos (F1544-20-6)	<i>Aspergillus fumigatus</i>	5	Aislado de <i>Guapira standleyana</i>
Hongos Endófitos (F1544-27-1)	<i>Aspergillus fumigatus</i>	4	Aislado de <i>Guapira standleyana</i>
Hongos Endófitos (F1544-28-7)	<i>Aspergillus fumigatus</i>	2.5	Aislado de <i>Guapira standleyana</i>
Hongos Endófitos (F1544-28-9)	<i>Aspergillus fumigatus</i>	2 7	Aislado de <i>Guapira standleyana</i>
Hongos Endófitos (F0305)NR1-158-02	<i>Pycnoporus sanguineus</i>	2 3	Aislado de Desmontes incomparabilis
Hongos Endófitos (F0305) NR1-158-03	<i>Pycnoporus sanguineus</i>	2.0	Aislado de Desmontes incomparabilis
Hongos Endófitos (F0305) NR1-158-08	<i>Pycnoporus sanguineus</i>	13 2	Aislado de Desmontes incomparabilis



REPUBLICA DE PANAMA

92234

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No. SOLICITUD

No. AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE
05-02-2010HASTA
05-04-2010

EL QUE SUSCRIBE:

ING. DONALINO MARTINEZ.

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACIÓN SE DESCRIBEN, CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACIÓN POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA.

IMPORTADOR; CIP O RUC:

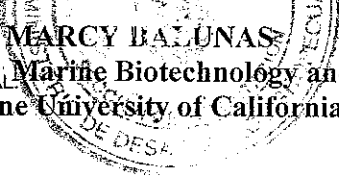
NOMBRE O RAZÓN SOCIAL:

DOMICILIO:

APDO:

TEL:

FAX:



MARCY BALUNAS

Center for Marine Biotechnology and
Biomedicine University of California, San Diego

U.S.A

EXPORTADOR; CIP O RUC:

NOMBRE O RAZÓN SOCIAL:

DOMICILIO:

APDO:

TEL:

FAX:

LUIS CUBILLA RIOS

Departamento de Química Orgánica
Universidad de Panamá

PANAMA

CANTIDAD

UNID. DE MED.

DESCRIPCION

FINALIDAD

34.6

mg

MUESTRA DE HONGOS ENDOFITOS "VER LISTADO ADJUNTO"

PAIS DE ORIGEN
PANAMAPAIS DE PROCEDENCIA
PANAMALUGAR DE SALIDA
TOCUMEN

FRACCION ARANCELARIA



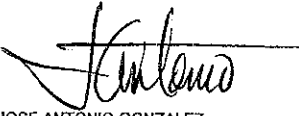
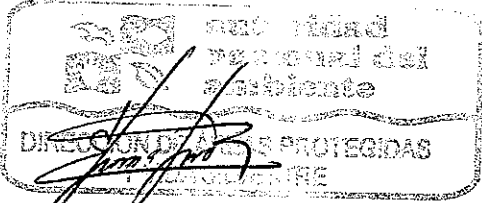
PAIS DE DESTINO
U.S.A

ADJUNTAR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY. PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACIÓN ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION.

LUGAR DE EMISION
VICOMEXFECHA DE EMISION
05-02-2010

FIRMA

<p align="center">REPUBLICA DE PANAMA</p> 	<p align="center">Autoridad Nacional del Ambiente</p>  <p align="center">anam</p> <p align="center">Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p align="center">PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p align="center">No. <u>SEX/H-1-12</u></p>	
<p>TITULAR (NOMBRE Y DIRECCIONES – PAIS) CONSIGNOR (NAME AND ADDRESS – COUNTRY) MARCELINO GUTIERREZ Calle Guanabanas, Apt.620C, Clayton, Panamá, Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES – PAIS) CONSIGNEE (NAME AND ADDRESS – COUNTRY) WILLIAM GERWICK Universidad de California, San Diego C.A., Instituto Oceanografico , U.S.A.</p>		<p align="center">FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p align="center">HONGOS</p> <p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p align="center">EXPORTACION</p> <p align="center">869287551912</p>	
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE Análisis de muestras por espectrometría de masas (HPLC-MS)</p>			
<p>NOMBRE COMUN COMMON NAME</p> <p>Hongos</p> <p>Hongos</p> <p>Extracto orgánico</p> <p>Extracto orgánico</p>	<p>NOMBRE CIENTÍFICO SCIENTIFIC NAME</p> <p>Aspergillus versicolor</p> <p>Emericella niger</p> <p>Bacteria marina</p> <p>Bacteria marina</p>	<p>CANTIDAD QUANTITY</p> <p>0.5 g</p> <p>0.5 g</p> <p>2 mg</p> <p>2 mg</p>	<p>DESCRIPCIÓN DESCRIPTION</p> <p>vial pequeño con muestra</p> <p>vial pequeño con muestra</p> <p>vial pequeño con muestra</p> <p>vial pequeño con muestra</p>
<p align="center">VER LISTA ADJUNTA –BACTERIAS MARINAS</p>			
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2012-01-10 DATE</p>  <p>JOSE ANTONIO GONZALEZ Técnico responsable</p>	 <p>ING. EDGAR T CHACÓN R. Director de Áreas Protegidas y Vida Silvestre</p> <p align="center">FIRMA RESPONSABLE Y SELLO</p>		
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

Listado de Especies
Pérmiso Científico
SEX/H-1-12

Extracto Orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto Orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto Orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto Orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra
Extracto orgánico	Bacteria marina	2 m g	Vial pequeño con la muestra



Jaramba



REPUBLICA DE PANAMA

095005

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DESDE

HASTA

VIGENCIA:

19-1-2012

9-3-2012

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

EL QUE SUSCRIBE: DR. CLAUDIO SERRATO ID 180 FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA AGROPECUARIA Y CON FUNDAMENTO EN LA LEY 23 DEL 15 JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACIÓN SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACIÓN POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA.

IMPORTADOR; CIP O RUC: NOMBRE O RAZÓN SOCIAL: UNIVERSIDAD DE CALIFORNIA, SAN DIEGO MARCELINO GUTIERREZ DOMICILIO: PAIS: ESTADOS UNIDOS	EXPORTADOR; CIP O RUC: NOMBRE O RAZÓN SOCIAL: INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES DOMICILIO: PAIS: PANAMA
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CANTIDAD	UNID. DE MED.	DESCRIPCIÓN	FINALIDAD
0.000050	KILOS	VIALES BACTERIAS MARINAS	






PAIS DE ORIGEN PANAMA	PAIS DE PROCEDENCIA PANAMA	LUGAR DE SALIDA TOCUMEN	FRACCION ARANCELARIA	PAIS DE DESTINO ESTADOS UNIDOS
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REUNIR LOS REQUISITOS ESPECÍFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASÍ COMO PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL. (LEY 23 DEL 15 JULIO DE 1997)
 LA DOCUMENTACIÓN ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITO-ZOOSANITARIOS PARA EXPORTACIÓN.

LUGAR DE EMISION VICOMEX	FECHA DE EMISION 19-1-2012
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[Handwritten Signature]
FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/H-2-11</u></p> <p>VALIDO HASTA: <u>2011-06-11</u> VALID UNTIL</p> <p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>HONGOS</p>	
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>LUIS CUBILLA RÍOS Departamento de Química Orgánica, Universidad de Panamá El Cangrejo, Panamá</p>	<p>EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS</p> <p>EXPORTACION</p>		
<p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>WILLIAM GERWICK Scripps Institution of Oceanography, University of California, San Diego, U S A</p>			
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>			
<p>PROPOSITO PURPOSE</p> <p>Esta exportación se realiza con el fin de efectuar espectrometria de masas para determinar estructura molecular de metabolitos secundarios</p>			
<p>NOMBRE COMUN COMMON NAME</p> <p>Hongos</p>	<p>NOMBRE CIENTÍFICO SCIENTIFIC NAME</p> <p>Hongos endófitos (VER LISTA ADJUNTA)</p>	<p>CANTIDAD QUANTITY</p> <p>26 mg</p>	<p>DESCRIPCIÓN DESCRIPTION</p> <p>26 Extractos y fracciones (1 mg C/U)</p>
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2011-03-14 DATE</p> <p>PREPARADO POR JORGE GARCÍA</p>	 <p>ING. EDGAR T. CHACON R Director de Áreas Protegidas y Vida Silvestre</p>	<p>FIRMA RESPONSABLE Y SELLO</p>	
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>			

AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCIÓN DE ÁREAS PROTEGIDAS Y VIDA SILVESTRE
DEPARTAMENTO DE BIODIVERSIDAD Y VIDA SILVESTRE

LISTA ADJUNTA DEL PERMISO DE EXPORTACIÓN SEX/H-2-11

Nombre común	Nombre Científico	Cantidad	Planta	Permiso de colecta
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Mycoleptodiscus sp</i>	1 mg	<i>Desmotes Incomparabilis</i>	SC/P-23-03
Hongos	<i>Libertella blepharis</i>	1 mg	<i>Olyra latifolia</i>	SE/P-24-07
Hongos	<i>Libertella blepharis</i>	1 mg	<i>Olyra latifolia</i>	SE/P-24-07
Hongos	Desconocido	1 mg	<i>Capparis antonensis</i>	SC/P-16-03
Hongos	Desconocido	1 mg	<i>Capparis antonensis</i>	SC/P-16-03
Hongos	Desconocido	1 mg	<i>Capparis antonensis</i>	SC/P-16-03
Hongos	Desconocido	1 mg	<i>Capparis antonensis</i>	SC/P-16-03
Hongos	Desconocido	1 mg	Desconocido	SE/P-33-08
Hongos	<i>Cordiceps ditergena</i>	1 mg	<i>Desmotes incomparabilis</i>	SC/P-23-03
Hongos	<i>Cordiceps ditergena</i>	1 mg	<i>Desmotes incomparabilis</i>	SC/P-23-03
Hongos	<i>Aspergillus Fumigatus</i>	1 mg	<i>Guapira standleyana</i>	N/A
Hongos	<i>Aspergillus Fumigatus</i>	1 mg	<i>Guapira standleyana</i>	N/A
Hongos	<i>Edenia sp</i>	1 mg	<i>Petrea volubilis</i>	SC/P-23-03
Hongos	<i>Edenia sp</i>	1 mg	<i>Petrea volubilis</i>	SC/P-23-03
Hongos	<i>Edenia sp</i>	1 mg	<i>Petrea volubilis</i>	SC/P-23-03
Hongos	<i>Hyptis Recurvata</i>	1 mg	---	SC/P-9-10
Hongos	<i>Hyptis Recurvata</i>	1 mg	---	SC/P-9-10





REPUBLICA DE PANAMA

85477

**MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA**

No SOLICITUD

No AUTORIZACION

LICENCIA FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

DESDE

24-3-2011

HASTA

24-5-2011

EL QUE SUSCRIBE: **ING. JAIME CACERES ID 771-82** FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA AGROPECUARIA Y CON FUNDAMENTO EN LA LEY 23 DEL 15 JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS, SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACIÓN SE DESCRIBEN CUMPLEN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACIÓN POR LO CUAL SE LE EXTIENDE LA PRESENTE LICENCIA

IMPORTADOR; CIP O RUC: NOMBRE O RAZÓN SOCIAL: WILLIAM GERWICK UNIVERSITY OF CALIFORNIA, SAN DIEGO DOMICILIO: APDO: ESTADOS UNIDOS FAX:	EXPORTADOR; CIP O RUC: NOMBRE O RAZÓN SOCIAL: LUIS CUBILLA DEPTO. DE QUIMICA/UNIV.PANAMA DOMICILIO: APDO: PANAMA TEL: FAX:
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CANTIDAD	UNID. DE MED.	DESCRIPCIÓN	FINALIDAD
0.000026	KGS	HONGOS ENDOFITOS	
PANAMA	PANAMA	TOCUMEN	ESTADOS UNIDOS
PAIS DE ORIGEN	PAIS DE PROCEDENCIA	LUGAR DE SALIDA	FRACCION ARANCELARIA
			PAIS DE DESTINO

ADJUNTAR LOS REQUISITOS ESPECÍFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASÍ COMO DE PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)

LA DOCUMENTACIÓN ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITO-ZOOSANITARIOS PARA EXPORTACIÓN.





VICOMEX

24-3-2011

LUGAR DE EMISION

FECHA DE EMISION

FIRMA

<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/P-23-06</u></p> <p>VALIDO HASTA: 2006-09-06 VALID UNTIL</p>							
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>CATHERINA CABALLERO INSTITUTO SMITHSONIAN DE INVESTIGACIONES TROPICALES, Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>WILLIAM GERWICK Scripps Institution of Oceanography, University of California at San Diego, MC 0212, CL 92093-0212, U.S.A.</p>		<p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FLORA</p> <table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p>		EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS
EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT								
IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT								
TRANSITO TRANSIT	OTROS OTHERS								
<p>PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER</p> <p>Aeropuerto Internacional de Tocumen</p>									
<p>PROPOSITO PURPOSE</p> <p>Procesar la muestra para ser traída a Panamá al INDICASA T, para indicar la presencia de sustancias que tengan actividad contra el cáncer y enfermedades tropicales.</p>									
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTIFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>						
<p>Algas</p>	<p>Oscillatoria sp.</p>	<p>150 mL</p>	<p>3 viales de agua de mar , 50 mL cada uno</p>						
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2006-06-04 DATE</p> 		 <p>ALEIDA SALAZAR Directora Nacional de Áreas Protegidas y Vida Silvestre</p> <p>FIRMA RESPONSABLE Y SELLO</p>							
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>									



REPUBLICA DE PANAMA

45083

MINISTERIO DE DESARROLLO AGROPECUARIO
DIRECCION NACIONAL DE CUARENTENA AGROPECUARIA

No. SOLICITUD

No. AUTORIZACION

DESDE

22-06-06

HASTA

22-08-06

DIRECCION FITO-ZOOSANITARIA DE EXPORTACION.

VIGENCIA:

QUE SUSCRIBE:

DR. REINALDO VIVEROS

FUNCIONARIO DE LA DIRECCION EJECUTIVA DE CUARENTENA

AGROPECUARIA, Y CON FUNDAMENTO EN LA LEY 23 DEL 15 DE JULIO DE 1997, CERTIFICA QUE LOS ANIMALES, VEGETALES, PRODUCTOS Y SUBPRODUCTOS E INSUMOS DE ORIGEN ANIMAL, BIOLÓGICOS Y AGROQUÍMICOS, QUE A CONTINUACION SE DESCRIBE COMPLETAN CON LOS REQUISITOS FITO-ZOOSANITARIOS PARA LA EXPORTACION POR LO CUAL SE LE EXTIENDE LA PRESENTACION.

IMPORTADOR; CIP O RUC:

EXPORTADOR; CIP O RUC:

NOMBRE O RAZON SOCIAL:

WILLIAM GERWICK

NOMBRE O RAZON SOCIAL:

CATHERINA CABALLERO

DOMICILIO:

Scripps Inst. of Oceanography,
Univ. California at San Diego, MC0212,
CL 92093-0212, U.S.A

DOMICILIO:

INST. SMITHSONIAN PANAMA

TEL:

TEL:

FAX:

TEL:

TEL:

FAX:

CANTIDAD	UNID. DE MED.	DESCRIPCION	FINALIDAD		
150	ml	ALGAS OSCILLATORIA SP (3 viales de agua de mar, 50 ml cada uno)			
PAIS DE ORIGEN		PAIS DE PROCEDENCIA	LUGAR DE SALIDA	FRACCION ARANCELARIA	PAIS DE DESTINO
PANAMA		PANAMA	TOCUMEN		U.S.A.

REUNIR LOS REQUISITOS ESPECIFICOS ESTABLECIDOS POR LA LEY, PARA LA IMPORTACION Y EXPORTACION DE ANIMAL Y VEGETAL, ASI COMO PRODUCTOS Y SUBPRODUCTOS DE ORIGEN ANIMAL Y VEGETAL (LEY 23 DEL 15 JULIO DE 1997)
LA DOCUMENTACION ADJUNTA, INCLUYE LOS CERTIFICADOS Y REPORTES DE PRUEBAS DE CAMPO Y LABORATORIO, QUE ACREDITAN EL CUMPLIMIENTO DE LOS REQUISITOS FITOZOOSANITARIOS PARA EXPORTACION



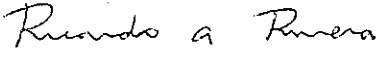
LUGAR DE EMISION

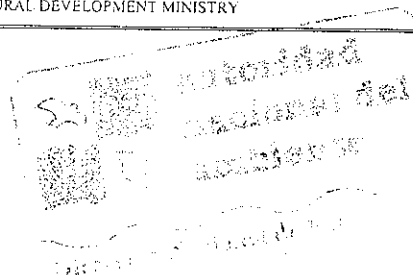
VICOMEX



FECHA DE EMISION

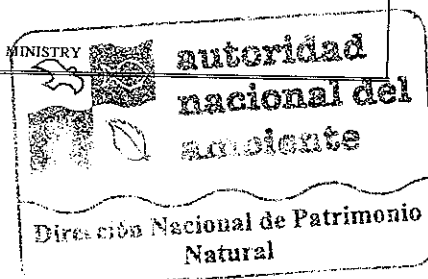
22-06-06



CIDMA

REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  anam		PERMISO CIENTIFICO SCIENTIFIC PERMIT No <u>SEX/P-31-04</u> VALIDO HASTA: <u>2004-09-10</u> VALID UNTIL FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS FLORA	
Apartado C, Zona 0843, Balboa, Ancón, Panamá		TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) TODD CAPSON Instituto Smithsonian de Investigaciones Tropicales. Coordinador del Proyecto ICBG., U.S.A		EXPORTACION EXPORT RE-EXPORTACION RE-EXPORTACION IMPORTACION IMPORT RE-IMPORTACION RE-IMPORTACION TRANSITO TRANSIT OTROS OTROS EXPORTACION	
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) KERRY McPHAIL Oregon State University College of Pharmacy Gerwick Research Lab 231 Oak Creek Building, Oregon., U.S.A					
PUERTO DE SALIDA O ENTRADA - TRANSPORTE PORT OF EXIT OR ENTRANCE CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Fines de científicos					
NOMBRE COMUN COMMON NAME		NOMBRE CIENTIFICO SCIENTIFIC NAME		CANTIDAD QUANTITY	
Alga		Cyanobacteria		1/2 litros	
Alga		Macroalgae		1 litros	
DESCRIPCIÓN DESCRIPTION		por cada especie por cada especie			
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección Nacional de Patrimonio Natural Servicio Nacional de Administración de Áreas Protegidas y Vida Silvestre FECHA: 2004-06-10 DATE			 LIC RICARDO A. RIVERA J. Director Nacional de Patrimonio Natural FIRMA RESPONSABLE Y SELLO		
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					



<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTIFICO SCIENTIFIC PERMIT</p> <p>No. <u>SEX/P-7-04</u></p> <p>VALIDO HASTA: <u>2004-04-21</u> VALID UNTIL</p>																				
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Instituto Smithsonian de Investigaciones Tropicales, Panamá</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>OREGON STATE UNIVERSITY (OSU) Estado de Oregon, U S A.</p>		<p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FLORA</p> <table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORT RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p>	EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORT RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS														
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<p>PROPOSITO PURPOSE</p> <p>Fines científicos</p>																						
<table border="1"> <thead> <tr> <th>NOMBRE COMUN COMMON NAME</th> <th>NOMBRE CIENTIFICO SCIENTIFIC NAME</th> <th>CANTIDAD QUANTITY</th> <th>DESCRIPCIÓN DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td>Ver lista adjunta</td> <td></td> <td></td> </tr> <tr> <td>Algas marinas</td> <td>Algae spp.</td> <td>7</td> <td>Muestras químicas</td> </tr> <tr> <td>Algas marinas</td> <td>Algae spp.</td> <td>10</td> <td>Muestras en cultivo</td> </tr> <tr> <td>Algas marinas</td> <td>Algae spp.</td> <td>3</td> <td>Muestras en RNALater</td> </tr> </tbody> </table>	NOMBRE COMUN COMMON NAME	NOMBRE CIENTIFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION		Ver lista adjunta			Algas marinas	Algae spp.	7	Muestras químicas	Algas marinas	Algae spp.	10	Muestras en cultivo	Algas marinas	Algae spp.	3	Muestras en RNALater		
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<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Patrimonio Natural Servicio Nacional de Administración de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2004-01-21 DATE</p>	<p><i>Ricardo A. Rivera</i></p> <p>LIC. RICARDO A. RIVERA J. Director Nacional de Patrimonio Natural</p> <p>FIRMA RESPONSABLE Y SELLO</p>																					
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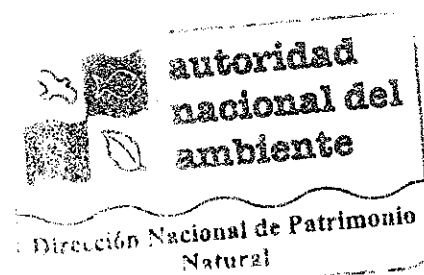


<p>REPUBLICA DE PANAMA</p> 	<p>Autoridad Nacional del Ambiente</p>  <p>anam</p> <p>Apartado C, Zona 0843, Balboa, Ancón, Panamá</p>	<p>PERMISO CIENTÍFICO SCIENTIFIC PERMIT</p> <p>No. SEX/PB-1-03 No. SEX/PB-T-03</p> <p>VALIDO HASTA: 2003-08-16 VALID UNTIL</p>							
<p>TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON Programa ICBG Instituto Smithsonian de Investigaciones Tropicales, Panamá.</p> <p>DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY)</p> <p>TODD CAPSON / Dr. Gerwick Oregon State University, U S A</p>		<p>FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS</p> <p>FLORA, BACTERIAS</p> <table border="0"> <tr> <td>EXPORTACION EXPORT</td> <td>RE-EXPORTACION RE-EXPORT</td> </tr> <tr> <td>IMPORTACION IMPORT</td> <td>RE-IMPORTACION RE-IMPORT</td> </tr> <tr> <td>TRANSITO TRANSIT</td> <td>OTROS OTHERS</td> </tr> </table> <p>EXPORTACION</p>		EXPORTACION EXPORT	RE-EXPORTACION RE-EXPORT	IMPORTACION IMPORT	RE-IMPORTACION RE-IMPORT	TRANSITO TRANSIT	OTROS OTHERS
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<p>PROPOSITO PURPOSE</p> <p>Fines científicos</p>									
<p>NOMBRE COMUN COMMON NAME</p>	<p>NOMBRE CIENTÍFICO SCIENTIFIC NAME</p>	<p>CANTIDAD QUANTITY</p>	<p>DESCRIPCIÓN DESCRIPTION</p>						
<p>Cyanobacteria</p>	<p>Lyngbya sp.</p>	<p>3 L</p>	<p>Solución conteniendo muestras</p>						
<p>Cyanobacteria</p>	<p>Schizothrix sp.</p>	<p>3 L</p>	<p>"</p>						
<p>Cyanobacteria</p>	<p>Symploca sp.</p>	<p>2 L</p>	<p>"</p>						
<p>Cyanobacteria</p>	<p>Oscillatiria sp.</p>	<p>1 L</p>	<p>"</p>						
<p>Cyanobacteria</p>	<p>Phormidium sp.</p>	<p>1 L</p>	<p>"</p>						
<p>ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY:</p> <p>Dirección Nacional de Patrimonio Natural Servicio Nacional de Administración de Áreas Protegidas y Vida Silvestre</p> <p>FECHA: 2003-05-16 DATE</p>		<p><i>Ricardo A. Rivera</i></p> <p>LIC. RICARDO RIVERA J Director Nacional de Patrimonio Natural</p> <p>FIRMA RESPONSABLE Y SELLO</p>							
<p>ESTE PERMISO DEBE IR ACOMPAÑADO DEL CERTIFICADO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO.</p> <p>THIS PERMIT MUST BE ACOMPANED BY A QUARANTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY</p>									

Dirección Nacional de Patrimonio Natural

Lista de Especies continúa atrás**

NOMBRE COMUN COMMON NAME	NOMBRE CIENTÍFICO SCIENTIFIC NAME	CANTIDAD QUANTITY	DESCRIPCIÓN DESCRIPTION
Cyanobacteria	Rivularia sp.	1 L	"
Cyanobacteria	Calothrix/Diclothrix sp.	1 L	"
Cyanobacteria	Spirocoleus sp	500 ml	"
Alga	Tydemania expeditionis	1 L	"
Alga	Udotea geppii	1 L	"
Alga	Neomaris sp.	500 ml	"
Alga	Dictyota sp.	2 L	"
Alga	Lobophora sp	1 L	"
Alga	Styopodium/Padina sp.	1 L	"
Alga	Laurencia sp.	3 L	"
Alga	Zellera sp.	1 L	"
Alga	Peyssonelia sp.	2 L	"
Cyanobacteria	Lyngbya majuscula	2 L	"
Cyanobacteria	Lyngbya semiplena	1 L	"
Cyanobacteria	Lyngbya penicilliformis	2 L	"
Cyanobacteria	Lyngbya polychroa	2 L	"
Cyanobacteria	Lyngbya bouilloni	1 L	"
Cyanobacteria	Lyngbya bouilloni	1 L	"



REPUBLICA DE PANAMA 		Autoridad Nacional del Ambiente  anam Apartado C Zona 0843 Balboa, Ancón Panamá		PERMISO CIENTIFICO SCIENTIFIC PERMIT No <u>SEX/PB-49-10</u> VALIDO HASTA: <u>2010-12-08</u> VALID UNTIL	
				FAUNA / FLORA / HONGOS / BACTERIAS / OTROS ORGANISMOS FLORA	
TITULAR (NOMBRE Y DIRECCIONES - PAIS) CONSIGNOR (NAME AND ADDRESS - COUNTRY) Kevin Tidgewell Instituto Smithsonian de Investigaciones Tropicales, Panamá			EXPORTACION RE-EXPORTACION EXPORT RE-EXPORT IMPORTACION RE-IMPORTACION IMPORT RE-IMPORT TRANSITO OTROS TRANSIT OTHERS EXPORTACION		
DESTINATARIO (NOMBRE Y DIRECCIONES - PAIS) CONSIGNEE (NAME AND ADDRESS - COUNTRY) Kevin Tidgewell University of California San Diego 9500 Gilman Drive, MC0212 La Jolla, CA 92093, U.S.A.					
PUERTO DE SALIDA O ENTRADA / TRANSPORTE PORT OF EXIT OR ENTRANCE / CARRIER Aeropuerto Internacional de Tocumen					
PROPOSITO PURPOSE Estudios científicos de química de productos naturales					
NOMBRE COMUN COMMON NAME		NOMBRE CIENTIFICO SCIENTIFIC NAME		CANTIDAD QUANTITY	
		Ver lista adjunta			
ESTE PERMISO ES EMITIDO POR: THIS PERMIT IS ISSUED BY: Dirección de Áreas Protegidas y Vida Silvestre FECHA: 2010-09-08 DATE			  MARISOL DIMAS Directora Encargada de Áreas Protegidas y Vida Silvestre FIRMA RESPONSABLE Y SELLO		
ESTE PERMISO DEBE IR ACOMPAÑADO DEL RESPECTIVO SANITARIO EXPEDIDO POR EL MINISTERIO DE DESARROLLO AGROPECUARIO THIS PERMIT MUST BE ACCOMPANED BY A QUARENTINE CERTIFICATE FROM THE AGRICULTURAL DEVELOPMENT MINISTRY					



REPUBLICA DE PANAMA
AUTORIDAD NACIONAL DEL AMBIENTE
DIRECCION DE AREAS PROTEGIDAS Y VIDA SILVESTRE

Listado de especímenes a exportar por permiso científico

SEX/P-49-10

VALIDO hasta 08/12/10

Nombre común	Nombre Científico	Cantidad	Descripción
Cianobacteria	<i>Lyngbya majuscula</i>	100	Gramos
Cianobacteria	<i>Lyngbya semiplena</i>	100	Gramos
Cianobacteria	<i>Lyngbya penicilliformis</i>	50	Gramos
Cianobacteria	<i>Lyngbya polychroa</i>	50	Gramos
Cianobacteria	<i>Lyngbya bouillonii</i>	100	Gramos
Cianobacteria	<i>Lyngbya</i> sp.	100	Gramos
Cianobacteria	<i>Schizothrix</i> sp.	100	Gramos
Cianobacteria	<i>Symploca</i> sp.	100	Gramos
Cianobacteria	<i>Oscillatoria</i> sp.	100	Gramos
Cianobacteria	<i>Phormidium</i> sp.	100	Gramos
Cianobacteria	<i>Rivularia</i> sp.	50	Gramos
Cianobacteria	<i>Calothrix</i> sp.	50	Gramos
Cianobacteria	<i>Spirocoleus</i> sp.	50	Gramos
Macroalgas	<i>Tydemania expeditionis</i>	50	Gramos
Macroalgas	<i>Udotea geppii</i>	50	Gramos
Macroalgas	<i>Neomaris</i> sp.	50	Gramos
Macroalgas	<i>Dictyota</i> sp.	100	Gramos
Macroalgas	<i>Lobophora</i> sp.	100	Gramos
Macroalgas	<i>Stypopodium</i> sp.	100	Gramos
Macroalgas	<i>Laurencia</i> sp.	100	Gramos
Macroalgas	<i>Zellera</i> sp.	50	Gramos
Macroalgas	<i>Peyssonnelia</i> sp.	50	Gramos

**United States Department of Agriculture
Cooperative State Research, Education, and Extension Service
AWARD FACE SHEET**

1. Award No. 2008-35621-04749		Amendment No.		2. Proposal Number 2008-04530		3. Period of Performance 09/01/2008 through 08/31/2013		4. Type of Instrument Grant	
5. Type of Action New		6. CFDA Number 10.206		7. CAN		8. MO		9. Method of Payment DHHS Payment Management System	
10. CRIS Number									
11. Authority: 7 U.S.C. 450i, Sec. 2(b) of P.L. 89-106, as amended, National Research Initiative Competitive Grants Program									
12. Agency (Name and Address) Awards Management Branch Cooperative State Research, Education, and Extension Service/USDA Washington, DC 20250-2271					13. Awardee Organization The Regents of the Univ. of Calif., U.C. San Diego La Jolla, CA 92093				
14. Program Point of Contact: Sivapathasun Sureshwaran Telephone: 202-720-7536 ssureshwaran@csrees.usda.gov			Administrative Point of Contact: Charles Hungerford Telephone: 202-401-5059 chungerford@csrees.usda.gov			15. Project Director/Performing Organization Lena Gerwick The Regents of the Univ. of Calif., U.C. San Diego La Jolla, CA 92093			
16. Funding:				17. Funds Chargeable					
		<u>Federal</u>		<u>Non-Federal</u>		<u>FY - FDC</u>		<u>Amount</u>	
Previous Total		\$0.00		\$0.00		08- 862-35621		\$500,000.00	
+ or -		\$500,000.00		\$0.00					
Total		\$500,000.00		\$0.00					
Grand Total		\$500,000.00							
18. Title of Proposal Drug Discovery from Panamanian Marine and Freshwater Microorganisms									
PROVISIONS									
This Award incorporates the following:									
<ol style="list-style-type: none"> 1. The referenced proposal and any revision thereto - incorporated by reference 2. Research Terms and Conditions (07/01/08) and CSREES Agency Specific Terms and Conditions (07/08) at http://www.nsf.gov/bfa/dias/policy/rtc/index.jsp 3. This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase IV Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots. 4. 7 CFR Part 3015, 7 CFR Part 3017, 7 CFR Part 3018, and 7 CFR Part 3019 - incorporated by reference 5. The Approved Award Budget 6. CRIS Forms AD-416 and AD-417 - incorporated by reference 7. The obligation of funds may be terminated without further cause unless the recipient commences the timely drawdown of funds; initial drawdown must be made within the first year of the project. 8. This award will reach the statutory time limitation on 08/31/2013, the end date of this project. The recipient is encouraged to complete the project as proposed and obligate all funds awarded by this date. No-cost extensions of time will not be possible. 									
Co-Project Director(s): William Gerwick (The Regents of the Univ. of Calif., U.C. San Diego)									
FOR THE UNITED STATES DEPARTMENT OF AGRICULTURE									
This award, subject to the provisions above, shall constitute an obligation of funds on behalf of the Government. Such obligation may be terminated without further cause unless the recipient commences the timely drawdown of funds; such drawdowns may not exceed one year from issuance date of the award.									
Typed Name Duane Alphs Authorized Departmental Officer				Signature DALPHS				Date 08/20/2008	

SUBAWARD # 10-SUBC-440-0000189778
BETWEEN
SMITHSONIAN INSTITUTION
AND
UNIVERSITY OF CALIFORNIA AT SAN DIEGO

This Agreement is entered into by and between the Smithsonian Institution, a trust instrumentality, having a principal place of business at 1000 Jefferson Street S.W, Washington, DC 20560 (hereinafter referred to as SMITHSONIAN) and The Regents of the University of California on behalf of its San Diego campus, having a principal place of business at 9500 Gilman Drive, La Jolla, CA 92093 (hereinafter referred to as SUBAWARDEE):

SMITHSONIAN has a funding agreement with the U.S. Department of Health and Human Services, National Institutes of Health (Sponsor's Award No. U01 TW006634 hereinafter referred to as the Prime Award) for a project entitled "Bioassay and Ecology Directed Drug Discovery in Panama"; and

SUBAWARDEE has submitted a proposal to perform work on the project under the Prime Award. The proposal contains a Scope of Work (attached as APPENDIX B) and Budget (attached as APPENDIX C), and SMITHSONIAN has accepted SUBAWARDEE's proposal.

SMITHSONIAN and SUBAWARDEE agree as follows:

ARTICLE 1: SCOPE OF WORK

SUBAWARDEE will perform work described in the approved Scope of Work. SUBAWARDEE agrees to perform such work with the standard of professional care and skill customarily provided in the performance of such work as set forth in this Agreement.

ARTICLE 2: PERIOD OF PERFORMANCE

This Agreement shall be effective from 1 October 2009 through 31 May 2010 and it may be amended at any time by mutual consent in writing of the parties.

ARTICLE 3: CONSIDERATION AND PAYMENT

This is a cost reimbursement agreement. Under this Agreement, SMITHSONIAN agrees to reimburse SUBAWARDEE up to \$32,445 (thirty two thousand, four hundred forty five U.S. Dollars) for work performed as detailed in the Scope of Work and Budget. SMITHSONIAN shall have no obligation to pay SUBAWARDEE for work not in compliance with this Agreement or in excess of this amount.

SUBAWARDEE will submit invoices to the SMITHSONIAN Technical Representative (as named in APPENDIX D) not more often than monthly and no less often than quarterly. All invoices shall at minimum include current and cumulative costs (including cost sharing if applicable) listed according to the cost categories in the Budget, be in US Dollars, include this Agreement Number, and include a statement certifying the truth and accuracy of the invoice.

SUBAWARDEE will submit a final invoice within 30 days of the end date of this Agreement. The final invoice shall be clearly marked "Final" and include cumulative costs (including cost sharing if applicable).

SMITHSONIAN shall pay invoices upon approval by the SMITHSONIAN Technical Representative. Payments shall not be unduly withheld and shall be made within 30 (thirty) days of receipt of SUBAWARDEE's invoice. Questions concerning invoice receipt or payments should be directed to the appropriate party's Financial Contact (as named in APPENDIX D).

Upon request of SMITHSONIAN, SUBAWARDEE will refund any amounts determined to be unallowable expenditures as a result of audit by the prime awarding organization or SMITHSONIAN. SUBAWARDEE shall have the right to establish allowability of any such item of cost under this Agreement.

ARTICLE 4: DELIVERABLES AND TECHNICAL REPORTS

SUBAWARDEE will submit deliverables and/or technical reports as defined in the Scope of Work to the SMITHSONIAN Technical Representative.

ARTICLE 5: CONTACTS

Matters concerning the technical performance of this Agreement shall be directed to the appropriate party's Technical Representative. The SMITHSONIAN Technical Representative will monitor and approve SUBAWARDEE's performance of the Scope of Work. The Technical Representatives are not authorized to change the scope, terms, monetary provisions, or any other conditions of this Agreement. SUBAWARDEE may not substitute or substantially reduce the level of effort of its Technical Representative without prior approval of the SMITHSONIAN Administrative Contact.

Matters concerning the request or negotiation of any changes in the terms, conditions, or amounts cited in this Agreement, and any changes requiring prior approval, should be directed to the appropriate party's Administrative Contact.

Any changes made to this Agreement shall require the written approval of each party's Authorized Official (as named in APPENDIX D).

ARTICLE 6: EQUIPMENT

SUBAWARDEE will be accountable for all equipment purchased under this Agreement. Title to such equipment will transfer to SUBAWARDEE at the time of acquisition unless the Prime Award directs otherwise. SUBAWARDEE agrees to utilize such equipment for the benefit of the project and will maintain appropriate records to enable SMITHSONIAN to fulfill its responsibilities to the Prime Award.

ARTICLE 7: COPYRIGHTS AND DATA RIGHTS

SUBAWARDEE, to the extent allowed by law shall grant to Smithsonian, a royalty free, non-transferable, non-exclusive right and license to use, reproduce, make derivative works, display, and perform publicly any copyrights or copyrighted materials (including any computer software and its documentation and/or databases) first developed and delivered under this Agreement solely for the purpose of and only to the extent required to meet **SMITHSONIAN's obligations to the Federal Government under its Prime Award.**

SUBAWARDEE grants to SMITHSONIAN the right to use data created in the performance of this Agreement for the purpose of education and research or other standard museum purposes to the extent required to meet SMITHSONIAN's obligations under the Prime Award.

ARTICLE 8: INDEMNITY

To the extent authorized by law, SMITHSONIAN agrees to defend indemnify and hold SUBAWARDEE harmless from and against any and all liability, loss, expense, reasonable attorney's fees, or claims for injury or damages arising out of the performance of this Agreement, but only in proportion to and to the extent such liability, loss, expense, attorneys' fees, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of SMITHSONIAN, its officers, agents or employees.

To the extent authorized by law, SUBAWARDEE agrees to defend indemnify and hold SMITHSONIAN harmless from and against any and all liability, loss, expense, reasonable attorney's fees, or claims for injury or damages arising out of the performance of this Agreement, but only in proportion to and to the extent such liability, loss, expense, attorneys' fees, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of SUBAWARDEE, its officers, agents or employees.

ARTICLE 9: INSURANCE REQUIREMENTS

SUBAWARDEE will maintain insurance policies covering all its work performed and associated with this Agreement as required by the Prime Award, if applicable.

ARTICLE 10: TERMINATION

Either party may terminate this Agreement without cause by providing 30 (thirty) days prior written notice to the other party. Written notice shall be directed to the Administrative contact named in APPENDIX D. In the event of termination of the Prime Award, or upon default of the SUBAWARDEE, SMITHSONIAN may terminate this Agreement immediately. Upon receipt of termination notice, SUBAWARDEE will make no further commitments under this Agreement and will take all reasonable actions to cancel outstanding obligations. Within 30 (thirty) days of the termination date, SUBAWARDEE will furnish all necessary reports of work completed or in progress

If this is a cost-reimbursable agreement, SUBAWARDEE will furnish detailed accounting of all costs incurred and balance of unexpended funds through the date of termination. SMITHSONIAN shall reimburse SUBAWARDEE for allowable termination costs and non-cancellable costs through the date of termination, not to exceed the funded value of this Agreement.

ARTICLE 11: EXAMINATION AND RETENTION OF RECORDS

In addition to any other audit requirements hereunder, SUBAWARDEE agrees that SMITHSONIAN or any of its duly authorized representatives shall, until the expiration of three years after final payment under this Agreement, have access to and the right to examine during normal working hours any directly pertinent books, documents, papers, and records of SUBAWARDEE involving transactions related to this Agreement. Financial records, supporting documents, and other records pertaining to this Agreement shall be maintained and retained by SUBAWARDEE for a period of three (3) years from the end date of this Agreement, unless the Prime Award requires a longer retention period, in which case the Prime Award's record retention requirements apply.

ARTICLE 12: ASSIGNMENT

SUBAWARDEE shall not assign any of its obligations under this Agreement without the prior written approval of the SMITHSONIAN Administrative Contact.

ARTICLE 13: NO PARTNERSHIP

In its performance of this Agreement, SUBAWARDEE shall be an independent entity and not an employee or agent of SMITHSONIAN. It is understood that nothing herein shall be construed to indicate that the parties are engaged in a partnership or joint venture. Neither party has the authority to bind the other with any third parties.

ARTICLE 14: USE OF NAMES

Except as provided in this Agreement or as required by law or regulation, neither party will use the name of the other party (for SUBAWARDEE, this prohibition shall encompass the name University of California, San Diego, the names of every other campus in the UC system, the name University of California, and any abbreviations or logos of same), or its employees in any advertisement, press release, publicity, or for any other purpose, including but not limited to stationary or on-line, without the prior written approval of the other party.

ARTICLE 15: TERRORISM FINANCING

SUBAWARDEE is reminded that US Executive Orders and US law prohibit transactions with, and provision of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of SUBAWARDEE to ensure compliance with these Executive Orders and laws, if applicable. This provision must be included in all subcontracts/subawards issued under this Agreement.

ARTICLE 16: SPECIAL CONDITIONS

SUBAWARDEE will comply with all applicable laws, regulations, and legal requirements, including but not limited to the applicable terms and conditions of the Prime Award.

ARTICLE 17: CONFLICT OF TERMS

In the event of any inconsistencies in this Agreement, unless otherwise provided herein, they shall be resolved by giving precedence in the following order

1. This Agreement
2. Agreement Appendices
3. Prime Award
4. Other applicable local, state, and federal regulations

ARTICLE 18: SEVERABILITY

If any term or provision of this Agreement is held to be invalid or unenforceable, the remainder shall be valid and enforceable.

ARTICLE 20: ENTIRE AGREEMENT

This Agreement, together with any and all appendices herein incorporated by reference, constitutes the entire agreement between the parties with respect to the subject matter of this Agreement and supersedes any and all previous agreements between the parties, whether oral or written, with respect to such subject matter. No modification or alteration of or addition to this Agreement shall be effective to bind the parties unless it shall be in writing signed by each party's Authorized Official.

The parties have caused this Agreement to be executed and signed.

SMITHSONIAN INSTITUTION

By *Karen Oly for*
 J. Scott Robinson
 Director
 Office of Sponsored Projects
 Date 11/17/09

**UNIVERSITY OF CALIFORNIA AT
SAN DIEGO**

By *Elizabeth Meier*
 Elizabeth Meier
 Contract and Grant Officer, Scripps Institution of
 Oceanography, UCSD
 Date November 12, 2009

Tax ID (or EIN): 956006144

DUNS No.: 175104595 (SIO)

Fiscal Year Ending Date: June 30

Incorporated by Reference:

APPENDIX A – Prime Award
 APPENDIX B – Scope of Work
 APPENDIX C – Budget
 APPENDIX D – Contacts

APPENDIX A: PRIME AWARD

[insert Prime award here]



INTERNATIONAL COOP BIODIVERSITY GROUPS
 Department of Health and Human Services
 National Institutes of Health
 FOGARTY INTERNATIONAL CENTER

Notice of Award

Issue Date: 09/11/2009



Grant Number: 5U01TW006634-07

Principal Investigator(s):
 William H Gerwick, PHD

Project Title: ICBG: "Training, Conservation and Drug Discovery using Panamanian Microorganisms"

Melva Caswell, Scott Robinson
 GRANTS & CONTRACTS ADMIN
 SMITHSONIAN INSTITUTION
 OFFICE OF SPONSORED PROJECTS
 PO BOX 37012, MRC 1205
 WASHINGTON, DC 200137012

Budget Period: 06/01/2009 – 05/31/2010

Project Period: 09/27/2003 – 05/31/2013

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$621,823 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to SMITHSONIAN INSTITUTION in support of the above referenced project. This award is pursuant to the authority of SECTS 301, 307, 482, 42 USC 241, 2421 & 287B and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release or other document that cites results from NIH grant-supported research must include an acknowledgment of NIH grant support and disclaimer such as "The project described was supported by Award Number U01TW006634 from the Fogarty International Center. The content is solely the responsibility of the authors and does not necessarily represent the official views of the Fogarty International Center or the National Institutes of Health."

Award recipients are required to comply with the NIH Public Access Policy. This includes submission to PubMed Central (PMC), upon acceptance for publication, an electronic version of a final peer-reviewed, manuscript resulting from research supported in whole or in part, with direct costs from National Institutes of Health. The author's final peer-reviewed manuscript is defined as the final version accepted for journal publication, and includes all modifications from the publishing peer review process. For additional information, please visit <http://publicaccess.nih.gov/>.

Award recipients must promote objectivity in research by establishing standards to ensure that the design, conduct and reporting of research funded under NIH-funded awards are not biased by a conflicting financial interest of an Investigator. Investigator is defined as the Principal Investigator and any other person who is responsible for the design, conduct, or reporting of NIH-funded research or proposed research, including the Investigator's spouse and dependent children. Awardees must have a written administrative process to identify and manage financial conflict of interest and must inform Investigators of the conflict of interest policy and of the Investigators' responsibilities. Prior to expenditure of these awarded funds, the Awardee must report to the NIH Awarding Component the existence of a conflicting interest and within 60 days of any new conflicting interests identified after the initial report. Awardees must comply with these and all other aspects of 42 CFR Part 50, Subpart F. These requirements also apply to subgrantees, contractors, or collaborators engaged by the Awardee under this award. The NIH website <http://grants.nih.gov/grants/policy/coi/index.htm> provides additional information.

If you have any question about this award, please contact the individual referenced in Section IV.

Sincerely yours,

BRUCE R BUTRUM
Grants Management Officer
FOGARTY INTERNATIONAL CENTER

Additional information follows

SECTION I – AWARD DATA – 5U01TW006634-07**Award Calculation (U.S. Dollars)**

Salaries and Wages	[REDACTED]
Fringe Benefits	[REDACTED]
Personnel Costs (Subtotal)	\$229,472
Consultant Services	\$91,000
Equipment	\$747
Supplies	\$79,247
Travel Costs	\$12,050
Other Costs	\$47,731
Consortium/Contractual Cost	\$90,648
Federal Direct Costs	\$550,895
Federal F&A Costs	\$70,928
Approved Budget	\$621,823
Federal Share	\$621,823
TOTAL FEDERAL AWARD AMOUNT	\$621,823
AMOUNT OF THIS ACTION (FEDERAL SHARE)	\$621,823

SUMMARY TOTALS FOR ALL YEARS		
YR	THIS AWARD	CUMULATIVE TOTALS
7	\$621,823	\$621,823
8	\$621,936	\$621,936
9	\$621,532	\$621,532
10	\$621,752	\$621,752

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Number: 93.989
 EIN: 1530206027A1
 Document Number: UTW006634B
 Fiscal Year: 2009

IC	CAN	2009	2010	2011	2012
TW	8420587	\$100,000			
TW	8476360	\$471,823	\$621,936	\$621,532	\$621,752
CA	8479567	\$50,000			

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: ICBG / OC: 414P / Processed: BUTRUMBR 09/06/2009

SECTION II – PAYMENT/HOTLINE INFORMATION – 5U01TW006634-07

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <http://grants.nih.gov/grants/policy/awardconditions.htm>

SECTION III – TERMS AND CONDITIONS – 5U01TW006634-07

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- a. The grant program legislation and program regulation cited in this Notice of Award.
- b. Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- c. 45 CFR Part 74 or 45 CFR Part 92 as applicable.

- d. The NIH Grants Policy Statement, including addenda in effect at the beginning date of the budget period.
- e. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at '<http://grants.nih.gov/grants/policy/awardconditions.htm>' for certain references cited above.)

An unobligated balance may be carried over into the next budget period without Grants Management Officer prior approval.

This grant is excluded from Streamlined Noncompeting Award Procedures (SNAP). In accordance with P.L. 110-161, compliance with the NIH Public Access Policy is now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <http://publicaccess.nih.gov/>.

This award is funded by the following list of institutes. Any papers published under the auspices of this award must cite the funding support of all institutes.

Fogarty International Center (FIC) National Cancer Institute (NCI)

Treatment of Program Income:
Additional Costs

SECTION IV – TW Special Terms and Conditions – 5U01TW006634-07

FUNDING LEVEL

This non-competing award is issued in accord with the FIC FY09 Funding Strategy: http://www.fic.nih.gov/funding/fy_strategy/2009funding.htm and is consistent with the NIH Guide Notice NOT-OD-09-002 <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-002.html>.

CURRENT AND FUTURE YEAR LEVELS

In accordance with the October 27, 1995, NIH Guide announcement and NIH implementation, future-year recommended levels are shown as total costs (the sum of direct plus facilities and administrative costs). Adjustments to facilities and administrative costs (increases or decreases in rate or base changes) will not routinely be made for future year awards.

PUBLICATIONS

All publications resulting from the research or research training supported by this award must acknowledge FIC and any co-funders (if applicable). This publication requirement applies not only to the primary grantee, but also to any subcontractors and /or trainees involved with the project.

FOREIGN TRAVEL

U.S. Flag carriers must be used for departure from or entry into the U.S. and for any other portion of the trip where available.

CONSORTIUM/CONTRACTUAL COSTS

This award includes funds for consortium activities. Consortia are to be established and administered in accordance with the NIH Grants Policy Statement: http://odoerdb2.od.nih.gov/gmac/nihgps_2003/nihgps_2003.pdf

FINANCIAL STATUS REPORTS (Standard Form 269)

In accordance with the NIH Grants Policy Statement, although this award is included under the Streamlined Non-Competing Award Process (SNAP), foreign grantees must submit an annual Financial Status Report (FSR) within 90 days of the end date of each budget period. The FSR must be submitted in English, in terms of U.S. dollars and use the current rate in existence at the time it is prepared. The Financial Status Report must be submitted via the eRA Commons: <https://commons.era.nih.gov/commons/>. Questions regarding the FSR may also be addressed here:

Contact: Shannon Hershman
 Government Accounting Branch
 Office of Financial Management
 National Institutes of Health
 2115 East Jefferson St., MSC 8500

Room 4B432
Bethesda, MD 20892-8500
<http://ofm.od.nih.gov/frs.asp>

ADDRESS FOR FUTURE NONCOMPETING APPLICATIONS

If your application has future years, please submit your future Progress Reports PHS 2590, 2 months prior to the anticipated start date, to the following address:

Division of Extramural Activities Support, OER
National Institutes of Health
6705 Rockledge Drive, Room 2207, MSC 7987
Bethesda, MD 20892-7987 (for regular or US Postal Service Express mail)
Bethesda, MD 20817 (for other courier/express mail delivery only)
Phone Number: (301) 594-6584

This is the new centralized mailing address for all NIH Institutes/Centers. Do NOT submit the non-competing progress report directly to Fogarty International Center.

FUNDING CONDITION

NOTE: All research agreements and collection/export permits must be completed and approved by the Fogarty Program Official by the end of the first budget year in order to ensure potential funding in subsequent years. Please complete agreements no later than 15 days prior to the end of the budget period.

COOPERATIVE AGREEMENT.

The "Terms and Conditions of Award" described in this section are in addition to, and not in lieu of, otherwise applicable OMB administrative guidelines, HHS Grant Administration Regulations at 45 CFR Parts 74 and 92, and other HHS, PHS, and NIH grant administration policy statements. Refer to the OER website for more information: <http://grants.nih.gov/grants/oer.htm>

The administrative and funding instrument used for this program will be the cooperative agreement, U01, an "assistance" mechanism (rather than an "acquisition" mechanism), in which substantial NIH programmatic involvement with the awardees is anticipated during the performance of the activities. Under the cooperative agreement, the NIH purpose is to support and stimulate the recipients' activities by involvement in and otherwise working jointly with the award recipients in a partnership role; it is not to assume direction, prime responsibility, or a dominant role in the activities. Consistent with this concept, the dominant role and prime responsibility resides with the awardees for the project as a whole, although specific tasks and activities may be shared among the awardees and the NIH as defined below.

Specific Terms and Conditions of Award for the ICBG program, originally published in the ICBG RFA TW-08-003, are in operation for this award and should be reviewed at the following website: <http://grants.nih.gov/grants/guide/rfa-files/RFA-TW-08-003.html#SectionVI>. In particular, funded investigators and business officials should note responsibilities related to a) Access and benefit sharing associated with genetic resources, b) data deposition and annotation with the ICBG Global Data Center, c) organizing an annual meeting and attending ICBG network meetings.

These "Terms and Conditions of Award" require that the U.S. Government Scientific Coordinator approve the following: reports intended for inclusion in INDAs and Clinical Brochures; redistribution, outside the ICBG, of biological and chemical materials received from the U.S. Government; and dissemination of research or project findings resulting from the use of such materials to assure conformity to existing confidentiality agreements with suppliers. You will shortly be informed of the identity of the USG Scientific Coordinator for your project.

Grantees are required to submit semi-annual progress reports for review by the Interagency Technical Advisory Group to the ICBG program. You will shortly receive formats and a schedule for these reports.

NIH has recently issued a new policy on data sharing. It can be viewed at: http://grants2.nih.gov/grants/policy/data_sharing. This policy goes into effect for awards made after October 1, 2003. Awardees should review this policy. The general principles regarding the need to disseminate findings through publication in peer-reviewed journals and on websites; and the need to maximize sharing of data among collaborators apply to the ICBG award. The management of proprietary data with collaborating companies poses special issues that should be addressed by the entire group in consultation with your program officials.

A current list of resources potentially available for project support through the NIH and other participating agencies is available through the FIC ICBG website:
http://www.fic.nih.gov/programs/research_grants/icbg/index.htm. You are encouraged to utilize contractual resources available through the funding agencies and compete for related grants to enhance the ICBG effort.

For up-to-date information, you may access the NIH Home Page at <http://www.nih.gov/> and the FIC Home Page at <http://www.fic.nih.gov/>.

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Elizabeth Cleveland
Email: clevelande@mail.nih.gov **Phone:** (301) 451-6830 **Fax:** (301) 594-1211

Program Official: Joshua Rosenthal
Email: jr141x@nih.gov **Phone:** (301) 402-6522 **Fax:** 301-402-0779

SPREADSHEET SUMMARY

GRANT NUMBER: 5U01TW006634-07

INSTITUTION: SMITHSONIAN INSTITUTION

<i>Budget</i>	<i>Year 7</i>	<i>Year 8</i>	<i>Year 9</i>	<i>Year 10</i>
Salaries and Wages				
Fringe Benefits				
Personnel Costs (Subtotal)	\$229,472	\$229,472	\$229,472	\$229,472
Consultant Services	\$91,000	\$91,000	\$91,000	\$91,000
Equipment	\$747			
Supplies	\$79,247	\$74,832	\$74,428	\$74,648
Travel Costs	\$12,050	\$12,050	\$12,050	\$12,050
Other Costs	\$47,731	\$47,731	\$47,731	\$47,731
Consortium/Contractual Cost	\$90,648	\$90,648	\$90,648	\$90,648
TOTAL FEDERAL DC	\$550,895	\$545,733	\$545,329	\$545,549
TOTAL FEDERAL F&A	\$70,928	\$76,203	\$76,203	\$76,203
TOTAL COST	\$621,823	\$621,936	\$621,532	\$621,752

<i>Facilities and Administrative Costs</i>	<i>Year 7</i>	<i>Year 8</i>	<i>Year 9</i>	<i>Year 10</i>
F&A Cost Rate 1	20%	21%	21%	21%
F&A Cost Base 1	\$229,472	\$229,472	\$229,472	\$229,472
F&A Costs 1	\$45,894	\$48,189	\$48,189	\$48,189
F&A Cost Rate 2	4.2%	4.7%	4.7%	4.7%
F&A Cost Base 2	\$596,043	\$596,043	\$596,043	\$596,043
F&A Costs 2	\$25,034	\$28,014	\$28,014	\$28,014

APPENDIX B: Scope of Work**SCOPE OF WORK:**

The Gerwick group will participate in several collection trips Panama. Active materials will be chromatographically fractionated and resubmitted to the bioassays at the UCSD in house assays and to the anti parasitic assays in Panama. Active fractions will be pursued and pure compounds isolated and their structures will be determined using a contemporary suite of NMR and mass spectrometric methods. Additional samples of pure and active compounds will be generated by recollection and re-isolation efforts, and in some cases, when larger amounts of material are needed, chemical synthesis will be performed.

DELIVERABLES:

Interim technical and financial report due May 31, 2010.

Signature: _____



APPENDIX C: Budget

10/1/09 through 5/31/10

<u>Total Salaries and benefits</u>	\$13,787
Lena Gerwick	
Mindy Johnson	
<u>Supplies</u>	\$ 1,838
<u>Total Travel</u>	\$ 5,000
Foreign	\$ 5,000
<u>Total Other</u>	\$ 375
Total Direct Costs	\$21,000
UCSD F&A @54.5% on MTDC	\$11,445
Total Indirect Costs	\$11,445
Total Funds Requested	\$32,445

Signature: Elizabeth Meier

APPENDIX D: CONTRACT REPRESENTATIVES

SMITHSONIAN Contacts	SUBAWARDEE Contacts
<p>Administrative Contact</p> <p>Name: Melva B. Caswell Smithsonian Institution</p> <p>Address: Office of Sponsored Projects P. O. Box 37012, MRC 1205 Washington, DC 20013-7012</p> <p>Telephone: 202-633-7099 Fax: 202-633-7119 Email: caswellm@si.edu</p>	<p>Administrative Contact</p> <p>Name: Elizabeth Meier Address: Scripps Institution of Oceanography University of California, San Diego 9500 Gilman Drive MC0210 La Jolla, CA 92093-0210</p> <p>Telephone: 858-822-6930 Fax: 858-534-9642 Email: emeier@ucsd.edu</p>
<p>Technical Representative</p> <p>Name: Dr. William Gerwick Address: Smithsonian Tropical Research Institute</p> <p>Telephone: 858-534-0578 Fax: 858-534-0529 Email: wgerwick@ucsd.edu</p>	<p>Technical Representative</p> <p>Name: Lena Gerwick Address: University of California at San Diego</p> <p>San Diego, CA Telephone: 858-534-0566 Fax: Email: lgerwick@ucsd.edu</p>
<p>Financial Contact</p> <p>Name: Erica Garibaldo Address: Smithsonian Tropical Research Institute ICBG Project</p> <p>Telephone: 011-507-212-8157 Fax: 011-507-212-8148 Email: GaribaldoE@si.edu</p>	<p>Financial Contact</p> <p>Name: Kyle Nakanishi Address: Center for Marine Biotechnology and Biomedicine, Scripps Institution of Oceanography, University of California, San Diego</p> <p>Telephone: 858-534-4246 Fax: Email: knakanishi@ucsd.edu</p>
<p>Authorized Official</p> <p>Name: J. Scott Robinson, CRA Director</p> <p>Address: Office of Sponsored Projects Smithsonian Institution P. O. Box 37012, MRC 1205 Washington, DC 20013-7012</p> <p>Telephone: 202-633-7110 Fax: 202-633-7119 Email: ospmail@si.edu</p>	<p>Authorized Official</p> <p>Name: Elizabeth Meier, Contract and Grant Officer</p> <p>Address: Scripps Institution of Oceanography, University of California, San Diego 9500 Gilman Drive MC 0210 La Jolla, CA 92093-0210</p> <p>Telephone: 858-822-6930 Fax: Email: emeier@ucsd.edu</p>

Purchase Order

Dispatch via Print

Issuing Office

Smithsonian Institution
Office of Sponsored Projects
P.O. Box 37012, MRC 1205
Washington DC 20013-7012
United States

Purchase Order	Revision	Date	Page
10-SUBC-440-0000189778		11/18/2009	1 of 1
Payment Terms	Freight Terms	Ship Via	
Net 30	FOB Destination	Cheap	
Buyer	Phone	Currency	
Julie O'Dell	202/633-7106	USD	

Vendor: 0000038504
University of California - San Diego
The Regents of the University of Califor
9500 Gilman Drive
Mail Code 356
La Jolla CA 92093

Ship To: TROPICAL RESEARCH INSTITUTE
REF PO: 10-SUBC-440-0000189778
UNIT 0948
APO, AA 34002
United States

Bill To: Smithsonian Institution
PO Box 37012
MRC 1203
Washington DC 20013-7012
United States

Tax Exempt?Y Tax Exempt ID:53-0206027 Contract # (IF ANY)

Ln-Sch	Item/Description	Mfg ID	Qty	UOM	PO Price	Ext Amt	Due Date
1- 1	To create a subcontract with U. of CA at San Diego To create a subcontract between SI & The University of CA- San Diego in the amount of \$32,445. The period of performance is 10/1/09-5/31/10 & the PI is Gerwick. Attached to this subcontract are the rules & regulations set forth for this agreement.		1.00	EA	32,445.00	32,445.00	11/18/2009

Line Total 32,445.00

Total PO Amount 32,445.00

803-0000-650034-341300-6100-2717-4120 -

Authorized Signature

Date

NEESE, TERESA, Procurement Officer

AMENDMENT NO. 1

To

SUBAWARD # 10-SUBC-440-0000189778
 BETWEEN
 SMITHSONIAN INSTITUTION
 AND
 UNIVERSITY OF CALIFORNIA AT SAN DIEGO

This Subaward is entered into by and between the Smithsonian Institution, a trust instrumentality, having a principal place of business at 1000 Jefferson Street S.W, Washington, DC 20560 (hereinafter referred to as SMITHSONIAN) and the University of California at San Diego having a principal place of business at 9500 Gilman Drive, La Jolla, CA 92093 (hereinafter referred to as SUBAWARDEE) is amended as follows:

ARTICLE 2: PERIOD OF PERFORMANCE shall be amended to extend the period of performance through 31 May 2011.

ARTICLE 3: CONSIDERATION OF PAYMENT It shall also be amended to increase the Agreement amount by \$16,223 from \$32,445 to a total Contract amount not to exceed \$48,668 as stated in Appendix B.

ARTICLE 4: DELIVERABLES shall be amended to require an interim technical and financial report to be submitted to Smithsonian Principal Investigator.

All other terms and conditions in Subaward Number -# 10-SUBC-440-0000189778 remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Contract amendment to be signed.

SMITHSONIAN INSTITUTION

UNIVERSITY OF CALIFORNIA AT
SAN DIEGO

By

Karen Oly for
 J. Scott Robinson, CRA
 Director
 Office of Sponsored Projects

By

Elizabeth Meier
 Elizabeth Meier
 Contract and Grant Officer, Scripps Institution
 of Oceanography, UCSD

Date

8/4/10

Date:

August 3, 2010

APPENDIX A

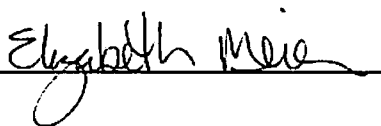
SCOPE OF WORK:

The Gerwick group will participate in several collection trips Panama. Active materials will be chromatographically fractionated and resubmitted to the bioassays at the UCSD in house assays and to the anti parasitic assays in Panama. Active fractions will be pursued and pure compounds isolated and their structures will be determined using a contemporary suite of NMR and mass spectrometric methods. Additional samples of pure and active compounds will be generated by recollection and re-isolation efforts, and in some cases, when larger amounts of material are needed, chemical synthesis will be performed.

DELIVERABLES:

Interim technical and financial report due May 31, 2011

Signature: _____

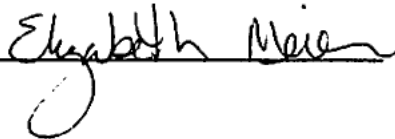


APPENDIX C: Budget

06/01/10 through 5/31/11

<u>Total Salaries and benefits</u>	\$ 7,201
Lena Gerwick	
Mindy Johnson	
<u>Supplies</u>	\$ 799
<u>Total Travel</u>	\$ 2,500
Foreign	\$ 2,500
Total Direct Costs	\$10,500
UCSD F&A @54.5% on MTDC	\$ 5,723
Total Indirect Costs	\$ 5,723
Total Funds Requested	\$16,223

Signature: _____



Purchase Order

Issuing Office
 Smithsonian Institution
 Office of Sponsored Projects
 P.O. Box 37012, MRC 1205
 Washington DC 20013-7012
 United States

CHANGE ORDER

Dispatch via Print

Purchase Order 10-SUBC-440-0000189778	Revision 1 - 08/04/2010	Date 11/18/2009	Page 1 of 1
Payment Terms Net 30	Freight Terms FOB Destination	Ship Via Cheap	
Buyer Julie O'Dell	Phone 202/633-7106	Currency USD	

Vendor: 0000038504
 University of California - San Diego
 The Regents of the University of Califor
 9500 Gilman Drive
 Mail Code 356
 La Jolla CA 92093

Ship To: TROPICAL RESEARCH INSTITUTE
 REF PO: 10-SUBC-440-0000189778
 UNIT 0948
 APO, AA 34002
 United States

Bill To: Smithsonian Institution
 PO Box 37012
 MRC 1203
 Washington DC 20013-7012
 United States

Tax Exempt?Y **Tax Exempt ID:**53-0206027 **Contract # (IF ANY)**

Ln-Sch	Item/Description	Mfg ID	Qty	UOM	PO Price	Ext Amt	Due Date
1 - 1	To create a subcontract with U. of CA at San Diego To create a subcontract between SI & The University of CA- San Diego in the amount of \$32,445. The period of performance is 10/1/09-5/31/10 & the PI is Gerwick. Attached to this subcontract are the rules & regulations set forth for this agreement.		1.00	EA	32,445.00	32,445.00	11/18/2009
Line Total						<u>32,445.00</u>	
2 - 1	Amendment #1: To add additional funds in the amount of \$16,223 for a new total of \$48,668. The end date has been extended to 5/31/11.		1.00	EA	16,223.00	16,223.00	08/04/2010
Line Total						<u>16,223.00</u>	
Total PO Amount						<u>48,668.00</u>	

803-0000-650034-341300-6100-2717-4120 - -

Authorized Signature

Date

NEESE, TERESA, Procurement Officer

AMENDMENT NO. 2

To

SUBAWARD # 10-SUBC-440-0000189778
 BETWEEN
 SMITHSONIAN INSTITUTION
 AND
 UNIVERSITY OF CALIFORNIA AT SAN DIEGO

This Subaward is entered into by and between the Smithsonian Institution, a trust instrumentality, having a principal place of business at 1000 Jefferson Street S.W, Washington, DC 20560 (hereinafter referred to as SMITHSONIAN) and the University of California at San Diego having a principal place of business at 9500 Gilman Drive, La Jolla, CA 92093 (hereinafter referred to as SUBAWARDEE) is amended as follows:

ARTICLE 2: PERIOD OF PERFORMANCE shall be amended to extend the period of performance through 31 May 2012.

ARTICLE 3: CONSIDERATION OF PAYMENT It shall also be amended to increase the Agreement amount by \$16,223 from \$48,668 to a total Contract amount not to exceed \$64,891 as stated in Appendix C.

ARTICLE 4: DELIVERABLES shall be amended to require the final report to be submitted to Smithsonian Principal Investigator at the termination of the contract. See Appendix B for a list of deliverables.

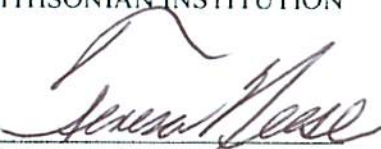
All other terms and conditions in Subaward Number -# 10-SUBC-440-0000189778 remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Contract amendment to be signed.

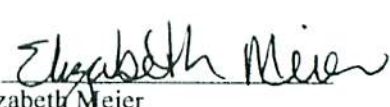
SMITHSONIAN INSTITUTION

UNIVERSITY OF CALIFORNIA AT
SAN DIEGO

By


 J. Scott Robinson, CRA
 Director
 Office of Sponsored Projects

By


 Elizabeth Meier
 Contract and Grant Officer, Scripps Institution
 of Oceanography, UCSD

Date

9/23/11

Date:

September 22, 2011

APPENDIX B

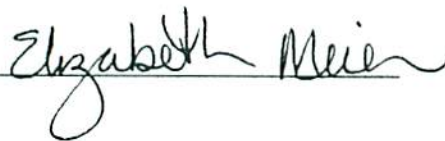
SCOPE OF WORK:

The Gerwick group will participate in several collection trips Panama. Active materials will be chromatographically fractionated and resubmitted to the bioassays at the UCSD in house assays and to the anti parasitic assays in Panama. Active fractions will be pursued and pure compounds isolated and their structures will be determined using a contemporary suite of NMR and mass spectrometric methods. Additional samples of pure and active compounds will be generated by recollection and re-isolation efforts, and in some cases, when larger amounts of material are needed, chemical synthesis will be performed.

DELIVERABLES:

Interim technical and financial report due May 31, 2012.

Signature: _____

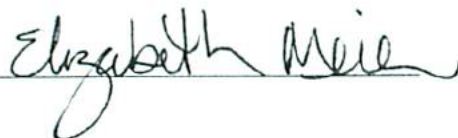
Handwritten signature of Elizabeth Meier in cursive script, written over a horizontal line.

APPENDIX C: Budget

06/01/11 through 5/31/12

<u>Total Salaries and benefits</u>	\$ 7,422
Lena Gerwick	
Staff Research Assoc.	
<u>Supplies</u>	\$ 578
<u>Total Travel</u>	\$ 2,500
Foreign	\$ 2,500
Total Direct Costs	\$10,500
UCSD F&A @54.5%	
on MTDC	\$ 5,723
Total Indirect Costs	\$ 5,723
Total Funds Requested	\$16,223

Signature:



Purchase Order

Issuing Office

Smithsonian Institution
Office of Sponsored Projects
P.O. Box 37012, MRC 1205
Washington DC 20013-7012
United States

CHANGE ORDER

Dispatch via Print

Purchase Order	Revision	Date	Page
10-SUBC-440-0000189778	2 - 09/26/2011	11/18/2009	1 of 1
Payment Terms	Freight Terms	Ship Via	
Net 30	FOB Destination	Cheap	
Buyer	Phone	Currency	
Julie O'Dell	202/633-7106	USD	

Vendor: 0000038504
University of California - San Diego
The Regents of the University of Califor
9500 Gilman Drive
Mail Code 356
La Jolla CA 92093

Ship To: American Embassy Panama
REF PO: 10-SUBC-440-0000189778
Smithsonian Trop. Res. Inst.
9100 Panama City Pl
Washington DC 20521-9100
United States

Bill To: Smithsonian Institution
PO Box 37012
MRC 1203
Washington DC 20013-7012
United States

Tax Exempt?Y Tax Exempt ID:53-0206027 Contract # (IF ANY)

Ln-Sch	Item/Description	Mfg ID	Qty	UOM	PO Price	Ext Amt	Due Date
1 - 1	To create a subcontract with U. of CA at San Diego To create a subcontract between SI & The University of CA- San Diego in the amount of \$32,445. The period of performance is 10/1/09-5/31/10 & the PI is Gerwick. Attached to this subcontract are the rules & regulations set forth for this agreement.		1.00	EA	32,445.00	32,445.00	11/18/2009
Line Total						<u>32,445.00</u>	
2 - 1	Amendment #1: To add additional funds in the amount of \$16,223 for a new total of \$48,668. The end date has been extended to 5/31/11.		1.00	EA	16,223.00	16,223.00	08/04/2010
Line Total						<u>16,223.00</u>	
3 - 1	Amendment #2: To increase funds by \$16,223 for a new total of \$64,891. The end date has been extended to 5/31/12.		1.00	EA	16,223.00	16,223.00	09/26/2011
Line Total						<u>16,223.00</u>	
Total PO Amount						<u>64,891.00</u>	

803-0000-650034-341300-6100-2717-4120- -

Authorized Signature

Date

NEESE, TERESA, Procurement Officer

AMENDMENT NO. 3

To

SUBAWARD # 10-SUBC-440-0000189778
 BETWEEN
 SMITHSONIAN INSTITUTION
 AND
 UNIVERSITY OF CALIFORNIA AT SAN DIEGO

This Subaward Amendment is entered into by and between the Smithsonian Institution, a trust instrumentality, having a principal place of business at 1000 Jefferson Drive S.W, Washington, DC 20560 (hereinafter referred to as SMITHSONIAN, and the University of California at San Diego, having a principal place of business at 9500 Gilman Drive, La Jolla, CA 92093 (hereinafter referred to as SUBAWARDEE). The Subaward is amended as follows:

ARTICLE 2: PERIOD OF PERFORMANCE shall be amended to extend the period of performance through 31 May 2013.

ARTICLE 3: CONSIDERATION AND PAYMENT shall also be amended to increase the Agreement amount by \$16,223 from \$64,891 to a total Contract amount not to exceed \$81,114 as stated in Appendix B.

ARTICLE 4: DELIVERABLES shall be amended to require the final report to be submitted to Smithsonian Principal Investigator at the termination of the contract. See Appendix B for a list of deliverables.

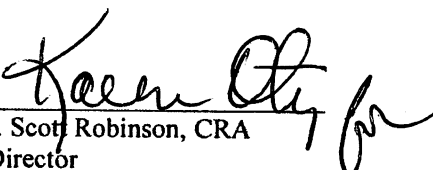
All other terms and conditions in Subaward Number #10-SUBC-440-0000189778 remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Subaward Amendment to be signed.

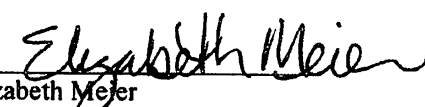
SMITHSONIAN INSTITUTION

UNIVERSITY OF CALIFORNIA AT
SAN DIEGO

By


 J. Scott Robinson, CRA
 Director
 Office of Sponsored Projects

By


 Elizabeth Mejer
 Contract and Grant Officer, Scripps Institution
 of Oceanography, UCSD

Date

6/29/12

Date:

6/28/12

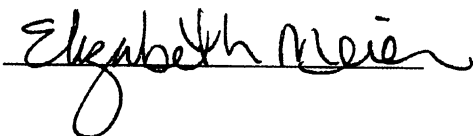
APPENDIX B

SCOPE OF WORK:

The PI will spend the effort supervising students, write progress reports, manuscripts and be the main person involved in the genomic effort of three Panamanian cyanobacteria that are having their genome sequenced.

DELIVERABLES:

Final technical and final financial report due May 31, 2013.

Signature: 

APPENDIX C: Budget

UNIVERSITY OF CALIFORNIA, SAN DIEGO
 DETAILED BUDGET REQUEST FOR THE PERIOD FROM 6/1/12 THROUGH 5/31/13

20081571R 1
 L. Gerwick - Smithsonian
 YEAR 5

SALARIES & EMPLOYEE BENEFITS:

Name and Payroll Title	* Monthly Salary Recharge Rate	Actual F/T Equivalent Person-Months Dedicated to Project	Total Salaries and Emp. Benefit Requested
Lena Gerwick Asst. Research Scientist	\$10,594	0.85	\$8,954

*Salary recharge rates are calculated for actual productive time only (except for non-faculty academic sick leave which is charged as direct). The rates include components for employee benefits, provisions for applicable merit increases and range adjustments in accordance with University policy. Staff overtime or remote location allowance may be required in order to meet project objectives, and separate rates are used in those cases.

TOTAL SALARIES & EMPLOYEE BENEFITS \$8,954

PROJECT SPECIFIC SUPPLIES, MATERIALS & OTHER EXPENSES: (ITEMIZE)

Laboratory/Field Research Supplies

\$145

OTHER:

\$150

Project specific costs that include telephone equipment, tolls, voice and data communication charges, photocopying, faxing, postage and subscriptions are requested. Supply and expense items, categorized as project specific, and computer and networking services are for expenses that specifically benefit this project and are reasonable and necessary for the performance of this project.

TOTAL SUPPLIES, MATERIALS & OTHER \$295

TRAVEL:

(DESTINATION & PURPOSE-ITEMIZE TRANSPORTATION, PER DIEM & MSC)

Foreign	airfare	no. days	per diem	taxi/bus	registr.	no. trips	total
Paranaiz PI & GSR Field Research & Meeting	\$800	6	\$75	\$0	\$0	1	\$1,250

TOTAL TRAVEL \$1,250

TOTAL DIRECT COSTS \$10,500

INDIRECT COSTS: (based on modified total direct costs & negotiated rate with cognizant audit agency DHHS):

Rate: On-Campus

54.5%

*Base

\$10,500

*Base is total direct cost less tuition remission, equipment and ship time.

INDIRECT COST \$5,723

TOTAL AMOUNT REQUESTED \$16,223

Signature: _____

Elizabeth Meier

DSGC#650034

PI: Gerwick

Purchase Order

Issuing Office

Smithsonian Institution
Office of Sponsored Projects
P.O. Box 37012, MRC 1205
Washington DC 20013-7012
United States

CHANGE ORDER

Dispatch via Print

Purchase Order	Revision	Date	Page
10-SUBC-440-0000189778	3 - 07/03/2012	11/18/2009	1 of 1
Payment Terms	Freight Terms	Ship Via	
Net 30	FOB Destination	Cheap	
Buyer	Phone	Currency	
Julie O'Dell	202/633-7106	USD	

Vendor: 0000038504
University of California - San Diego
The Regents of the University of Califor
9500 Gilman Drive
Mail Code 356
La Jolla CA 92093

Ship To: Smithsonian Trop. Res. Inst.
REF PO: 10-SUBC-440-0000189778
9100 Panama City Pl
Washington DC 20521-9100
United States

Bill To: Smithsonian Institution
PO Box 37012
MRC 1203
Washington DC 20013-7012
United States

Ln-Sch	Item/Description	Mfg ID	Qty	UOM	PO Price	Ext Amt	Due Date
1 - 1	To create a subcontract with U. of CA at San Diego To create a subcontract between SI & The University of CA- San Diego in the amount of \$32,445. The period of performance is 10/1/09-5/31/10 & the PI is Gerwick. Attached to this subcontract are the rules & regulations set forth for this agreement.		1.00	EA	32,445.00	32,445.00	11/18/2009
Line Total						<u>32,445.00</u>	
2 - 1	Amendment #1: To add additional funds in the amount of \$16,223 for a new total of \$48,668. The end date has been extended to 5/31/11.		1.00	EA	16,223.00	16,223.00	08/04/2010
Line Total						<u>16,223.00</u>	
3 - 1	Amendment #2: To increase funds by \$16,223 for a new total of \$64,891. The end date has been extended to 5/31/12.		1.00	EA	16,223.00	16,223.00	09/26/2011
Line Total						<u>16,223.00</u>	
4 - 1	Amendment #3: To increase funds by \$16,223 for a new total of \$81,114. The end date has been extended to 5/31/2013.		1.00	EA	16,223.00	16,223.00	07/04/2012
Line Total						<u>16,223.00</u>	
Total PO Amount						<u>81,114.00</u>	

803-0000-650034-341300-6100-2717-4120--

Authorized Signature

Date

NEESE, TERESA, Procurement Officer

ACADEMIC COLLABORATIVE AGREEMENT BETWEEN THE SMITHSONIAN TROPICAL RESEARCH INSTITUTE AND THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ON BEHALF OF ITS SAN DIEGO CAMPUS

WHEREAS the Smithsonian Tropical Research Institute ("STRI") is an operational unit of the Smithsonian Institution of the United States, established in Panama to increase and diffuse knowledge among humankind, that for more that seventy-five (75) years has carried out scientific activities and research in the Republic of Panama, especially in biological research and related studies of flora and fauna;

WHEREAS STRI is a party to the COOPERATION AGREEMENT BETWEEN THE NATIONAL ENVIRONMENTAL AUTHORITY (ANAM) AND THE SMITHSONIAN TROPICAL RESEARCH INSTITUTE ("STRI-ANAM Agreement") signed between the National Authority of the Environment ("ANAM") from the Republic of Panama and STRI on 8th of April, 2009, and valid until the 8th of April of 2014, attached herewith as Appendix A, for the International Cooperative Biodiversity Group ("ICBG") program;

AND WHEREAS the Scripps Institution of Oceanography, University of California San Diego ("THE ACADEMIC COLLABORATOR") is a nonprofit educational institution, and an Academic Collaborator, as defined in the STRI-ANAM agreement.

AND WHEREAS THE ACADEMIC COLLABORATOR and STRI will carry out the biological research and studies under this Agreement in a manner which is consistent with the United Nations Convention on Biological Diversity, dated June 5, 1992 and, adopted December 29, 1993, and ratified by Panama through Law 2 of January 12, 1995 and with Executive Decree 25, of April 29, 2009, attached herewith as Appendix B, from the Ministry of Economy and Finance, Republic of Panama, which regulates access to Panamanian Bio-genetic resources.

NOW THEREFORE, the undersigned, DR. ELDREDGE BERMINGHAM, in his capacity as Director and Legal Representative of STRI; and THE ACADEMIC COLLABORATOR (either a "Party", together the "Parties") agree to the terms of this Nonprofit-Academic Collaborative Agreement ("Agreement") on the following terms:

FIRST: BIOLOGICAL MATERIAL, DERIVATIVES, NONPROFIT COLLABORATOR, ACADEMIC COLLABORATOR, PANAMANIAN COLLABORATOR and NET INCOME, for purposes of the Agreement have the same definitions as the STRI-ANAM Agreement.

INTELLECTUAL PROPERTY, for purposes of this Agreement, has the same definition as Executive Decree 25, of April 29, 2009, Ministry of Economy and Finances, Republic of Panama and it includes the possible discoveries, processes and developments stated in clause FOURTEENTH of the ANAM – STRI Agreement.

JOINT INTELLECTUAL PROPERTY refers to Intellectual Property in which both THE ACADEMIC COLLABORATOR and STRI are recognized as co-inventors.

RESEARCH PLAN OF THE ICBG refers to the research to be performed by the Parties under this Agreement, as outlined in the Grant Application entitled "ICBG: Training, Conservation and Drug Discovery using Panamanian Micro-Organisms" dated 11/29/2007 and submitted for funding to the U.S. National Institutes of Health and participating organizations including the U.S. Department of Agriculture ("Sponsors").

SECOND: The STRI-ANAM agreement, which is attached herewith as Appendix A, is integrated into this Agreement and is a part of it. The present agreement shall be consistent with the STRI-ANAM Agreement and in the event of any discrepancy between this Agreement and the STRI-ANAM Agreement, the latter shall prevail.

THIRD: This Agreement is executed as part of the ICBG program established under the proposal, "Bioassay and Ecology-Directed Drug Discovery in Panama", ICBG application #1 U01 TW06634-01, submitted under United States National Institutes of Health Request for Application TW-04-004 and renewed under Request for Application TW-08-003. THE ACADEMIC COLLABORATOR is recipient of a U.S. Department of Agriculture CSREES awarded component of the ICBG award. As recipients of federal funds from these awards, all Parties intend to comply with the requirements of the ICBG program and all applicable provisions of the awards.

FOURTH: The purpose of this Agreement is:

- I. To establish a collaborative relationship between STRI and THE ACADEMIC COLLABORATOR with the goals of contributing to research by the ICBG Group in the Republic of Panama and at THE ACADEMIC COLLABORATOR.
- II. To allow the exchange of Biological Materials and Derivatives utilized and generated under this Agreement as well as information from the use of those Biological Materials and Derivatives.
- III. To utilize the Biological Materials and Derivatives such that they will provide the basis for prospective joint research proposals, joint research programs and related scientific purposes, including but not limited to chemical and biological assays and the purification and analysis of individual chemical compounds in order to establish the viability or non-viability of an application of the biological resource.
- IV. To share expertise among the Parties, Panamanian Collaborators, Nonprofit Collaborators and Academic Collaborators as defined in the STRI-ANAM Agreement.

- V. To provide training opportunities for Panamanian and U.S. scientists related to the development of novel therapeutic agents, including, but not limited to, techniques involved in the isolation and characterization of natural products as treatments for human disease.
- VI. To include, whenever possible, reciprocal research visits by Panamanian scientists to THE ACADEMIC COLLABORATOR and THE ACADEMIC COLLABORATOR scientists to Panama, with a focus on providing opportunities for Panamanian scientists to receive training and novel research opportunities.
- VII. To carry out the biological research and related studies described in the ANAM- STRI Agreement in a manner that improves the knowledge, appreciation, conservation and sustainable use of Panamanian biological resources and biological diversity.

FIFTH: The Parties acknowledge that the use of all Biological Materials provided to THE ACADEMIC COLLABORATOR and the use of Derivatives from such Biological Materials shall be restricted to non-commercial research. All Biological Materials and Derivatives transferred between the Parties shall only be used in connection with the activities under the Research Plan of the ICBG described in this Agreement.

SIXTH: THE ACADEMIC COLLABORATOR may make Biological Materials or Derivatives available to third parties but only under the appropriate terms of a material transfer agreement for the special cases of Biological Materials or Derivatives made available to third parties for the sole purpose of verifying the result of a bioassay or testing a bioassay of relevant importance or the obtainment of a physical or chemical property of the substance, or Biological Materials or Derivatives made available to Sponsors of the ICBG program as required by applicable Sponsor regulations, terms or conditions of award. The use of all Biological Materials or Derivatives by a third party shall be documented in all reports required by this Agreement and the data obtained from any experiments shall be shared freely between the Parties.

SEVENTH: Upon the expiration or termination of this Agreement or within 90 days of written request by STRI, THE ACADEMIC COLLABORATOR shall return to STRI all Biological Materials still in its possession, unless it is able to enter into a direct agreement with ANAM for the use of said Biological Material, as stated in clause NINTH (e) of the ANAM-STRI Agreement.

EIGHTH: Prior to the export of Biological Materials from STRI to THE ACADEMIC COLLABORATOR, STRI shall comply with all of the necessary agreements and obtain all of the necessary permits required by the Republic of Panama as specified in the STRI-ANAM agreement, Panama's Law 41 of 1998 and Executive Decree 25, of April 29, 2009, Ministry of Economy and Finances, Republic of Panama. THE ACADEMIC COLLABORATOR shall comply with all of the necessary agreements and obtain all of the necessary permits required by the United States of America. STRI agrees to provide THE ACADEMIC COLLABORATOR and THE ACADEMIC COLLABORATOR agrees to provide STRI with any and all information needed to fulfill those obligations, including but not limited to the family, genus and species names (when known) and the nature of the Biological Material being transferred.

NINTH: THE ACADEMIC COLLABORATOR agrees to clearly identify the Biological Materials and Derivatives obtained under this agreement as Panamanian in origin and will take the necessary measures to ensure appropriate custody of said Biological Materials and Derivatives.

TENTH: STRI and THE ACADEMIC COLLABORATOR agree to share with one another any and all results obtained from the Biological Materials, whether generated by STRI, THE ACADEMIC COLLABORATOR or a third party that is using Biological Materials or Derivatives obtained by the third party under the terms of this Agreement, including but not limited to activity in biological assays; information regarding novel uses of Biological Materials or Derivatives such as novel genetic constructs and the products that result from novel uses of those Biological Materials or Derivatives. The provisions herein for sharing information and results apply to any third party that received Biological Materials or Derivatives. However, in return for receiving information STRI and THE ACADEMIC COLLABORATOR agree to maintain confidentiality of any information provided by the third party meeting the definition of Confidential Information.

ELEVENTH: Information provided by a Party considered Confidential Information by the Providing Party under this Agreement will be labeled "Confidential". Confidential Information shall also include oral disclosures, provided at the time of disclosure the information is identified as Confidential Information and reduced to writing in summary form, marked as "Confidential Information" and delivered to the receiving Party within 30 days. The Party receiving the Confidential Information will not disclose any of the Confidential Information unless otherwise specified in writing by the other Party. Notwithstanding the foregoing, Confidential Information may be disclosed to the extent required by any law or regulation of any governmental authority having jurisdiction over any of the Parties, with appropriate efforts made to maintain confidentiality. The obligations of confidentiality shall be imposed for a period of five (5) years from the date of the last signature on their Agreement and shall not apply to information which

- (a) as shown by written records is in the possession of the receiving Party prior to the time of disclosure, and, as such, is not subject to an obligation of confidentiality; or

- (b) is in the public domain prior to disclosure through no breach of this Agreement by the receiving Party; or
- (c) is received from a third party unrelated to the Parties, provided that the Parties have no reason to doubt the right of the third party to make such disclosures; or
- (d) is independently developed by recipient Party without reference to Confidential Information; or
- (e) is required to be disclosed by law, court order, or regulation.

TWELFTH: While the use of all Biological Materials provided to THE ACADEMIC COLLABORATOR shall be restricted to non-commercial research, it is possible that inventions, developments or discoveries arising from research conducted under this Agreement may be of commercial interest. Title to inventions, developments or discoveries arising from research conducted under this Agreement shall be determined in accordance with United States Patent Law, Title 35 United States Code. All rights and the title to inventions which are conceived and reduced to practice solely by STRI shall belong to STRI, subject to the terms and conditions of this Agreement. All rights and the title to inventions which are conceived and reduced to practice solely by THE ACADEMIC COLLABORATOR shall belong to THE ACADEMIC COLLABORATOR, subject to the terms and conditions of this Agreement. All rights and the title to Joint Intellectual Property shall be jointly owned by STRI and THE ACADEMIC COLLABORATOR subject to the terms and conditions of this Agreement. Prior to the commercialization of any Joint Invention that may be derived from Biological Material or Derivatives associated with this Agreement, the Parties shall have a six-month period after written notice of same to enter into an Inter-Institutional Agreement to determine the disposition of such Joint Invention, including which Party shall assume responsibility for patents and patent application filing. In those cases the distribution of benefits between the parties shall be regulated according to what is established in clause TENTH of the ANAM – STRI Agreement, entitled "Proposal for the Distribution of Benefits or Net Income".

THIRTEENTH: Subject to the Confidentiality provisions set forth herein, the Parties grant one another express authorization to publish the results of any research carried out under the terms of this Agreement. Prior to submission of a manuscript for publication, the authoring Party shall provide the other Party with a copy of the manuscript relating to this Agreement. Upon written request, ACADEMIC COLLABORATOR will, at its option, either delete the enabling portion of the proposed publication or withhold publication for up to sixty (60) days to allow a patent application to be filed. If no written request is received within thirty (30) days of reception of the copy of the manuscript, the originating Party may proceed with publication. In any and all publications carried out in this manner, reference will be made to both Parties and to the project from which the information contained in the publication originated.

FOURTEENTH: The contact person from STRI for contractual matters is:

Dr. Eldredge Bermingham
Director of the Smithsonian Tropical Research Institute
Unit 0948
APO AA 34003-0948
Telephone: (507) 212-8110
FAX: (507) 212-8148
E-mail: Bermingham@si.edu

The contact person from STRI for technical matters is:

Dr. Luis Cubillas
Research Associate of the Smithsonian Tropical Research Institute
Unit 0948
APO AA 34003-0948
Telephone: (507) 212-8157
FAX: (507) 212-8148
E-mail: lucr@ancon.up.ac.pa

The contact person from THE ACADEMIC COLLABORATOR for technical matters is:

Dr. Lena Gerwick
Center for Marine Biotechnology and Biomedicine
Scripps Institution of Oceanography
University of California San Diego
9500 Gilman Drive, MC 0212
La Jolla, CA 92093-0212
Telephone: (858) 534-0566
Fax: (858) 534-0529
Email: lgerwick@ucsd.edu

The contact person from THE ACADEMIC COLLABORATOR for contractual matters is:

Elizabeth Meier
Contract and Grant Officer
Scripps Institution of Oceanography
University of California San Diego
9500 Gilman Drive, MC 0210
Telephone: (858) 822-6930
Fax: (858) 534-9642
Email: emeier@ucsd.edu

FIFTEENTH: This Agreement may not be changed, modified, released, discharged, abandoned or otherwise terminated in whole or in part, except by an instrument in writing signed by duly authorized representatives of STRI and THE ACADEMIC COLLABORATOR.

SIXTEENTH: This Agreement will enter into effect upon signing by the Parties and shall continue for one (1) year and will automatically renew for an additional year. Either of the Parties of this Agreement may terminate this Agreement upon thirty (30) calendar days written notice to the other. The confidentiality provisions of section ELEVENTH will survive termination of this Agreement.

SEVENTEENTH: THE ACADEMIC COLLABORATOR agrees to indemnify, defend and hold STRI, its officers, directors, employees and agents harmless against all claims, demands, suits, judgments, and expenses, including reasonable out-of-pocket attorneys' fees arising out of or based upon any claims, damages or suit brought against them, by ANAM or any other entity of the Panamanian government, arising out of the performance of this Agreement, but only in proportion to and to the extent such claims, demands, suits judgments, and expenses are caused by or result from the negligent or intentional acts or omissions of THE ACADEMIC COLLABORATOR, its officers, agents or employees. THE ACADEMIC COLLABORATOR shall give prompt written notice to STRI of any such claim or suit, including copies of any summons, complaint or other pleading. THE ACADEMIC COLLABORATOR shall have the option to undertake and conduct the defense of any suit so brought, and STRI agrees to cooperate with THE ACADEMIC COLLABORATOR. STRI may participate in any defense of a claim against it at its own expense.

To the extent authorized by law, STRI agrees to indemnify, defend and hold THE ACADEMIC COLLABORATOR, its officers, directors, employees and agents harmless against all claims, demands, suits, judgments, and expenses, including reasonable out-of-pocket attorneys' fees arising out of or based upon any claims, damages or suit brought against them, by ANAM or any other entity of the Panamanian government, arising out of the performance of this Agreement, but only in proportion to and to the extent such claims, demands, suits judgments, and expenses are caused by or result from the negligent or intentional acts or omissions of STRI, its officers, agents or employees. STRI shall give prompt written notice to THE ACADEMIC COLLABORATOR of any such claim or suit, including copies of any summons, complaint or other pleading. STRI shall have the option to undertake and conduct the defense of any suit so brought, and THE ACADEMIC COLLABORATOR agrees to cooperate with STRI. THE ACADEMIC COLLABORATOR may participate in any defense of a claim against it at its own expense.

EIGHTEENTH: The Parties will comply with the terms of this Agreement, the STRI – ANAM agreement and the Panamanian regulations mentioned herein pertaining to

access to bio-genetic resources of Panamanian origin (Executive Decree 25, of April 29, 2009, Ministry of Economy and Finances, Republic of Panama) when applicable, as well as with any other regulations that may apply to their activities.

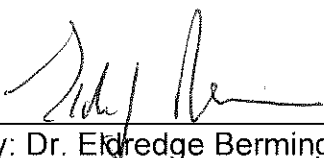
NINETEENTH: STRI and THE ACADEMIC COLLABORATOR are free to enter into other agreements with other parties for similar or identical purposes to those stated herein.

In witness whereof the Parties sign this Collaborative Agreement in two (2) counterparts, each of which constitutes an original.

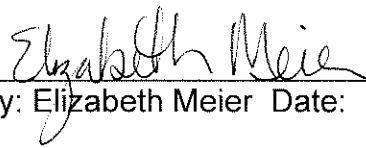
AGREED

THE SMITHSONIAN TROPICAL
RESEARCH INSTITUTE

THE ACADEMIC COLLABORATOR



(signed)
By: Dr. E. Fredge Bermingham Date: 21 August 2009



(signed)
By: Elizabeth Meier Date: August 12, 2009

**COOPERATION AGREEMENT BETWEEN THE NATIONAL ENVIRONMENTAL
AUTHORITY (ANAM) AND THE SMITHSONIAN TROPICAL RESEARCH
INSTITUTE (STRI)**

The undersigned, to wit: LIGIA CASTRO de DOENS, female, a Panamanian citizen, of legal age, bearer of personal identification No. 6254(c) in her capacity as Minister of affairs related to the Conservation of the Environment, General Administrator and Legal Representative of the National Environmental Authority, duly authorized under Law 41 of July 1, 1998, hereafter referred to as THE ANAM, on the one hand, and on the other, ELDREDGE BERMINGHAM, male, a U.S. citizen, of legal age, bearer of passport No. 6254(c) acting in his capacity as Director and Legal Proxy for the Smithsonian Tropical Research Institute, an International Mission and Nonprofit organization duly inscribed in Fiche C-10861, Roll 2903 and Image 0014 of the Microfiche Section (Natural Persons) of the Public Registry, with offices located in the Republic of Panama and postal address "STRI, Unit 0948, APO AA 34002-0948", duly authorized for this act, hereafter referred to as STRI, or jointly as THE PARTIES, have agreed to celebrate the present Agreement under the following clauses:

CONSIDERING:

That the National Environmental Authority was created under Law 41 of July 1, 1998, as the governing State entity in matters related to natural resources and the environment in order to ensure compliance with and application of the national laws, regulations and policies related to the environment.

That Executive Decree 257 of October 17, 2006, grants the National Environmental Authority the power to govern, regulate and control the access to and use of genetic and biological resources that originate in or proceed from the territory of the Republic of Panama, in order to ensure the conservation of biological diversity and sustainable use of its components as a mechanism for maintaining and improving the quality of life of its inhabitants.

That among its objectives, Executive Decree 257 of 2006 seeks to ensure the creation and development of scientific, technical and technological capacities at the local and national levels with regard to the use of its genetic and biological resources; to encourage the participation of national universities and scientific research and development centers in basic and bio-prospecting research together with international counterparts; to promote and facilitate the transfer of appropriate technologies for the providers of genetic and biological resources, the Panamanian scientific community and the State as a provider of genetic and biological resources.

That the National Environmental Authority and the Smithsonian Tropical Research Institute are institutions dedicated to the management of natural resources for various educational and informational purposes.

That STRI is a unit of the Smithsonian Institution of the United States, established in Panama for the purpose of increasing and spreading knowledge among humankind, that has carried out scientific and research activities in the national territory for more than eighty (80) years, especially in the fields of biological research and studies related to the flora and fauna, including the activities of collection, exportation and extraction of biological materials.

That THE ANAM and STRI agree to promote the relationship between scientists and scientific institutions in Panama and the United States, to improve education and infrastructure in Panama in the quest to add value to biological resources, to create opportunities for the conservation of Panamanian biodiversity and to promote sustainable development of Panama's natural resources.

That THE ANAM and STRI have carried out research and biological studies under Research Agreements consistent with the United Nations Convention on Biological Diversity of June 5, 1992, adopted on June 9, 1993 and ratified by Panama under Law 2 of January 12, 1995.

That the International Cooperative Biodiversity Group, with headquarters in the Republic of Panama, hereafter referred to as ICBG, is comprised of the University of Panama, the Institute of Advanced Scientific Investigations and High Technology Services (INDICASAT-AIP, for its initials in Spanish), and the Smithsonian Tropical Research Institute (STRI). These institutions in turn have Academic Collaborators, Nonprofit Collaborators and Industrial Collaborators at both the national and international level. The research carried out by ICBG members under this Agreement contributes to the development of Panama's scientific infrastructure and the training of the Panamanian human resource, to the conservation of the biological resource and to the quest to find applications to the biological resource, thereby contributing to the expansion and deepening of the current knowledge of the Panamanian biological resource.

AGREE:

FIRST: To enter into the present Agreement between THE ANAM and STRI, under which all research activities carried out by the ICBG Group in the Republic of Panama shall be governed.

SECOND: To apply to this Agreement the terms and definitions established in the regulations in force. Additionally and for purposes of this agreement, the following shall be defined as:

Important Events: Important stages in the development of a commercial product, such as official registration with the governments of the United States and the Republic of Panama of an agricultural product, or notification of research on a product with pharmaceutical potential, for which the Industrial Collaborator shall pay STRI in accordance with the agreements established between STRI and each collaborator and the legislation in force.

Academic Collaborator: Any institution or organization dedicated to teaching which has among its objectives the development of nonprofit scientific research.

Industrial Collaborator: Any for-profit organization which works in collaboration with STRI as part of the ICBG.

Panamanian Collaborator: Any institution or organization located in the Republic of Panama which is working in collaboration with STRI towards the achievement of the objectives of the ICBG, even though it is not directly a part of the ICBG.

Nonprofit Collaborator: Refers to any scientific, academic or research institution or nonprofit organization which is working in collaboration with STRI towards the achievement of the objectives of the ICBG, even though it is not directly a part of the ICBG.

Derivative: Any chemical compound which has been obtained from the Biological Material, an analog of this compound, a synthetic counterpart of this compound, a variation which is structurally based on this compound or which is otherwise produced using a substantial part of the information contained in, or suggested by, the genetic or biological resource and/or genetic material capable of expressing these compounds.

Export or Exportation: The intentional act of moving any material from one country to another. For purposes of this Agreement, it is the transfer from the Republic of Panama to another country of material which, in accordance with ANAM regulations, requires a specific permit.

Gross Income: Is STRI's total income resulting from royalties, payments for Important Events and license rights received from Collaborators or obtained as a result of the use of Biological Materials, Derivatives or Intellectual Property included under this Agreement.

Net Income: Gross income minus costs and expenses incurred to secure these incomes, such as, for example, those related to the registration and maintenance of patents. Other funds, including grants, subsidies and donations for STRI research, such as those received from the National Institute of Health (NIH) for the ICBG program, or for Nonprofit Collaborators, shall not be included in Net Income calculations and shall remain at all times under the control of the party that receives the subsidy, donation, grant or other funds, and shall be used solely for the purposes specified by the source of the funds or as specified in this Agreement.

Biological Material: Any biological substance, in its entirety or in part, which is collected within the Republic of Panama under this Agreement. Any biological substance, genetic resource, organism or a part of them, or any other type of biotic component of the ecosystem with real or potential value for humanity; including any material derived from plants, animals, fungi or microorganisms which contains specific characteristics, special molecules, extracts, derivatives and preparations of these derivatives or evidence for the design of these preparations, collected in the Republic of Panama. Examples include, but are not limited to, plants, insects, microbes and unclassified organisms such as microbial life present in samples or parasites transferred in an adventitious manner, including their Genetic Material and extracts, derivatives and preparations of these.

Payment for Important Events: The payment of fees by an Industrial Collaborator to STRI at each important stage in the development of a commercial product, such as the official registration with the governments of the United States and the Republic of Panama of an agricultural product, or notification for research on a product with pharmaceutical potential, in accordance with the Panamanian legislation in force.

Transfer: For purposes of the present Agreement, the act of moving Biological Material between STRI and Panamanian Collaborators which are not part of the ICBG. The mobilization of materials to foreign collaborators is defined under the title Export or Exportation.

THIRD: The Parties acknowledge the importance of the biological resources and biological diversity present in the Republic of Panama and shall carry out the biological research and related studies described in this Agreement in a manner that improves the knowledge, appreciation, conservation and sustainable use of these resources.

FOURTH: The Parties shall act in a manner consistent with the objectives of the United Nations Convention on Biological Diversity of June 5, 1992, adopted on December 29, 1993 and ratified by Panama under Law 2 of January 12, 1995 and in accordance with the regulations in force in the Republic of Panama governing access to the biological or genetic resource.

FIFTH: Prior to performing the collection, STRI must submit to THE ANAM a list of the species of interest to be collected, if their identity is known; if their identity is unknown, STRI must submit a written report on the level of progress made in classifying the species collected, after six (6) months from their collection. Additionally, STRI must indicate to THE ANAM the estimated quantities needed to carry out the study. STRI must maintain a record of the Biological Material collected.

(a) Collection of Biological Material.

The cost of the procedures for obtaining permits to collect samples shall be subject to the rates established by THE ANAM through Administrative Resolution.

(b) Minimization of environmental impact when collecting biological material.

STRI shall carry out all of its activities under this Agreement in a manner which minimizes adverse impacts on the environment. In the event that the study objects are Endangered or Endemic Species known to be so prior to collection, controlled collections shall be performed, after notification to and approval by THE ANAM of the quantities to be collected and, if possible, the status of the population of the species. Known endangered species include those listed in Appendices I, II and III of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), or otherwise recognized as such by THE ANAM or a competent scientific authority, in accordance with the national legislation in force. All relevant CITES provisions in force

since July 1, 1975, ratified by the United States of America on January 14, 1974 and by the Republic of Panama on August 17, 1978, under Law 24 of June 7, 1995, shall apply to this Agreement.

- (c) STRI may perform collections in the protected areas of the National System of Protected Areas (SINAP, for its initials in Spanish) and make use of biological material for the purposes of this Agreement, after obtaining the corresponding access permit. STRI may carry out collections in other areas, subject to prior agreement with THE ANAM, the ARAP or Entities Under Special Government Regimen.
- (d) The collection permits will be handled in accordance with the provisions established in the regulations in force and will have a duration determined by the UNARGEN.

STRI will not collect biological material for use in bio-prospecting in Entities Under Special Government Regimen.

STRI will not include traditional knowledge associated with the genetic resource in the development of bio-prospecting projects.

SIXTH: Uses of Collected Material

In addition to what is established under national legislation, the following must be taken into account regarding the use of the biological material collected:

- (a) The sale of any Biological Material is prohibited.
- (b) STRI and the ICBG Collaborators may use the Biological Material collected for research and related scientific purposes, including but not limited to: chemical and biological assays; the purification and analysis of individual chemical compounds in order to establish the viability or non-viability of an application of the biological resource.
- (c) STRI may export or transfer the Biological Material collected in accordance with what has been stipulated in the Seventh Clause of the present Agreement.

SEVENTH: Agreements with Nonprofit, Academic and Industrial Collaborators

- (a) Nonprofit Collaborators and Academic Collaborators. The Parties acknowledge that STRI shall collaborate with Nonprofit Collaborators and Academic Collaborators, including members of the ICBG, in the execution of scientific and research projects under this Agreement. The collaboration between STRI and each Nonprofit Collaborator or Academic Collaborator shall be formalized under their own Agreement. A copy of this Agreement shall be delivered to THE ANAM for informational purposes.
- (b) Industrial Collaborators. The Parties acknowledge that STRI may provide Biological Materials to Industrial Collaborators as part of the ICBG program, in accordance with the

stipulations of the present Agreement and with the laws of the Republic of Panama. The collaboration between STRI and each Industrial Collaborator shall be formalized under their own Industrial Collaborator's Agreement, a copy of which shall be delivered to THE ANAM for informational purposes. STRI shall inform THE ANAM of all transfers to Industrial Collaborators through biannual reports.

All of these Agreements shall specify the general responsibilities of the signers, in accordance with the regulations for access to national biological and genetic resources, such as those involving the formulation of benefits contracts.

EIGHTH: Transfer and Exportation

Transfer of Biological Material: STRI shall prepare, in accordance with what is established in the regulations in force and the present Agreement, a Material Transfer Agreement (MTA) for the transfer of Biological Material to Academic Collaborators and Nonprofit Collaborators that are not part of the ICBG group and have their headquarters in Panama. STRI must inform THE ANAM of all MTAs executed and deliver copies of these.

Exportation of Biological Material: STRI shall prepare and present to THE ANAM a request for authorization to export biological material to Academic Collaborators, Nonprofit Collaborators and Industrial Collaborators located outside the territory of the Republic of Panama.

- (a) STRI may export biological material to Academic Collaborators, Nonprofit Collaborators and Industrial Collaborators who have Agreements previously signed with STRI, under the terms and conditions established in said Agreements, which must have been communicated to THE ANAM in the manner set forth in the SEVENTH clause of the present Agreement. It shall be stated in writing, in all of these exports of biological material, that its country of origin is the Republic of Panama.
- (b) Special cases of Transfer or Exportation of Biological Material: In the event of the transfer or exportation of substances to Academic Collaborators or Nonprofit Collaborators with whom STRI has not signed an Agreement, for the sole purpose of verifying the result of a bioassay or testing a bioassay of relevant importance or the obtainment of a physical or chemical property of this substance, STRI shall not be required to have an Agreement with said Academic Collaborator or Nonprofit Collaborator, however STRI must inform THE ANAM of this activity and request the respective exportation permit.

Once the requests for Exportation of Biological Material have been approved by THE ANAM, these will be valid for a period of three months. STRI shall inform THE ANAM of the date on which the permit is to be made effective, prior to exportation of the sample. STRI shall pay the fees established by THE ANAM for the Exportation of Biological Material.

NINTH: Custody of Biological Material

- (a) STRI may retain custody and possession of the collected material for the duration of the present Agreement.
- (b) If STRI is interested in retaining possession of taxonomic samples of the biological material following expiration of the present Agreement, it must inventory said Biological Material and Derivatives, present a report to THE ANAM on the condition, location and state of the authorized biological samples and request it to THE ANAM in the form of a custodianship.
- (c) At the time this Agreement expires, STRI shall inform THE ANAM of the state of all Biological Material in its possession and in the possession of any Industrial Collaborator or Nonprofit Collaborator.
- (d) At the time this Agreement expires, STRI must return to THE ANAM or destroy all biological materials which are not going to be used as taxonomic samples, or used as stipulated in (e), Ninth Clause, complying with instructions and under the supervision of THE ANAM.
- (e) At the time this Agreement expires, any Academic Collaborator or Industrial Collaborator or Nonprofit Collaborator may use the Biological Material in the possession of STRI for the execution of future research, subject to the previous approval of THE ANAM and the creation of an Agreement between THE ANAM and the respective Collaborator.

TENTH: Proposal for the Distribution of Benefits or Net Income

With the goal of promoting collaboration between Panamanian research institutions and international institutions and, at the same time, promoting the conservation of the biological resource, the following distribution of net incomes obtained shall be applied:

- (a) If the institution which makes the discovery resulting in net incomes is located in Panama, is a part of the ICBG in Panama, an Academic Collaborator or a Nonprofit Collaborator, this institution shall receive fifty percent (50%). Institutions which are part of ICBG but did not make the discovery shall receive, together with THE ANAM, the remaining fifty percent (50%), to be divided in the following manner:
 - ANAM (Wildlife Fund), twenty-five percent (25%).
 - University of Panama, twenty-five percent (25%).
 - INDICASAT-AIP, twenty-five percent (25%)-
 - STRI, twenty-five percent (25%).

- (b) If the institution which makes the discovery resulting in net incomes is located in the United States, it shall receive fifty percent (50%), to be divided in the following manner:
- Institution which made the discovery, thirty percent (30%).
 - Remaining U.S. Institutions which are Academic Collaborators or Nonprofit Collaborators of the ICBG, twenty percent (20%), to be divided among them.
 - Institutions which are part of the ICBG in Panama together with THE ANAM, shall divide the remaining fifty percent (50%) in equal parts.
- (c) This proposal for the distribution of benefits is valid and shall accompany all requests for access within the framework of the ICBG Project.

ELEVENTH: Terms of Payment – Audit.

Within a period of one (1) month following finalization of each calendar year in which Net Incomes are received by STRI, STRI must provide THE ANAM and its Nonprofit Collaborators with a Statement of Account for all Net Incomes, together with the payment of all sums owed. All payments shall be in U.S. dollars. This Statement of Account must be reviewed by an independent auditor.

TWELFTH: Confidentiality

Data and information presented by STRI in relationship to the execution of the present Agreement, which have not been divulged and which could be subject to disloyal commercial use by third parties, shall be treated as confidential, except when their public dissemination is necessary to protect social or environmental interests. STRI must present justification of its petition, accompanied by a non-confidential summary which shall form part of the public file. Confidential aspects shall appear in a reserved file in the custody of THE ANAM, and may not be revealed to third parties except in the case of a judicial order to the contrary. If the petition does not comply with the requirements established in this clause, ANAM shall have the full right to deny it. Information considered confidential may be revealed to a competent authority at such time as it is required by the authority, maintaining its confidential nature.

THIRTEENTH: Publications.

Subject to the confidentiality provisions established in the present Agreement, The Parties agree to work together in order to make the results of the research carried out under this Agreement available for publication. STRI must submit three (3) copies of each publication based on studies done with materials inherent to this Agreement and must present the summary of these in Spanish; when possible, STRI must also submit a digital copy of the publications.

FOURTEENTH: Patents and Intellectual Property.

The Parties acknowledge that Intellectual Property may be developed in relationship to or as a result of this Agreement, and that STRI and/or its collaborators may procure patent protection to the extent they consider appropriate, in accordance with the Agreements celebrated between them.

Intellectual Property under this Agreement includes, but is not limited to: New chemical entities such as molecules, genes, genetic sequences and parental lines; discovered biochemical processes that possess medicinal, diagnostic or agricultural properties or other uses. In the case of Hybrid or transgenic Organisms, the national legislation in force shall apply.

FIFTEENTH: The authorized representatives are:

- For THE ANAM, the Director of the National Direction of Protected Areas and Wildlife.
- For STRI, the Director of the Smithsonian Tropical Research Institute or the person designated by him.

SIXTEENTH: Presentation of reports.

Reports must contemplate the following aspects:

- (a) STRI shall provide an ICBG Research Plan to THE ANAM prior to the commencement of any research activities under this Agreement.
- (b) STRI shall deliver a biannual progress report detailing the activities developed and results obtained through the project during this period.
- (c) STRI shall inform THE ANAM of economic contributions received from Industrial Collaborators, when these occur.
- (d) STRI must present and maintain an up-to-date report on the Agreements celebrated between STRI and its collaborators regarding patents and intellectual property. STRI must forward a copy of all patents and intellectual property registered at the international and national level which are the result of the present Agreement.

SEVENTEENTH: Assignment of responsibility.

STRI shall answer to THE ANAM for its own acts or for the negligence or omissions committed by its authorized employees, dignitaries, agents, Nonprofit Collaborators or Industrial Collaborators when taking part in any activity related to the present Agreement.

EIGHTEENTH: Relationship of the parties.

By accepting and fulfilling the obligations derived under this Agreement, THE ANAM and STRI must at all times act as independent parties and neither THE ANAM nor STRI shall be considered or represent themselves as a consortium, agent or employee of the other.

NINETEENTH: Duration and termination.

The present Agreement shall have a duration of five (5) years, which may be modified or extended by mutual agreement, through an Addendum which shall be signed by THE PARTIES and countersigned by the General Comptroller of the Republic. The present Agreement may be rescinded by either of THE PARTIES, provided that their intent is manifested in writing with 90 days anticipation.

TWENTIETH: Posterior uses of biological material.

Following termination of the Agreement, the Panamanian State reserves the right to adopt the necessary measures to achieve the resulting benefits through continuation of any research that is carried out or is planned to be carried out using biological material derived from this Agreement.

TWENTY-FIRST: Complete agreement.

The present Agreement, and its appendix, constitute the complete Agreement between the parties with respect to the subject of the same, and replaces any other written or oral understanding between the parties with regard to the ICBG program.

TWENTY-SECOND: Resolution of disputes.

Mediation. In the case of a dispute or conflict arising under this Agreement, the parties shall negotiate or resort to good faith mediation in accordance with the procedures established in the Republic of Panama.

TWENTY-THIRD: Transitory provisions.

Agreements celebrated with collaborators of the ICBG program under the terms and conditions of the Agreement dated April 8, 1999, must be adjusted to the provisions of the present Agreement, for which purpose a period of five (5) months shall be provided from the date of celebration of this Agreement.

Any agreement celebrated with a collaborator under the terms and conditions of the Agreement dated April 8, 1999, shall become null and void in the event that the collaborator refuses or is incapable of accepting the new terms and conditions contained in the present Agreement.

Academic Collaborative Agreement/Appendix A

In witness whereof, the present Agreement is signed in two (2) original copies of equal content and value in Panama City on the _____ () day of the month of _____ of the year two thousand nine (2009).

For THE ANAM,

For STRI,

LIGIA CASTRO de DOENS

ELDREDGE BERMINGHAM

APPENDIX A

SCIENTIFIC RESEARCH PERMITS

(Based on Article 39 of Law 24 of June 7, 1995, and Resolution AG-0138-2004).

To obtain permits for collection, observation, marking and other activities with scientific objectives, the following steps must be completed:

1.1 Send request to the Director of Protected Areas and Wildlife of THE ANAM. This request must be submitted at least fifteen working days prior to commencement of the study, depending on the type of research. The request must be accompanied by a description of the project, preliminary plan or profile of the research planned, containing the following information:

- a. Justification of the research.
- b. Objectives of the research.
- c. Methodology to be used.
- d. Manipulation of the ecosystem (brief explanation of what might be altered or modified)
- e. Duration of the study.
- f. Location of the study and chronogram of activities.
- g. Collection or capture.
 - 1) Common name, scientific name, age, quantity and gender.
 - 2) Method of collection.
 - 3) Specific sites where the collection will be carried out.
- h. If the captured specimens are going to be marked, indicate:
 - 1) Reasons for marking the specimens.
 - 2) Type of mark, form of marking and origin.
 - 3) Part of specimen where the marks will be placed.
- i. Person(s) who will be participating in the study:
 - 1) Permanent and/or temporary participants, indicating the person in charge of the research.
 - 2) Attach CV with 2 photographs of each individual who will be participating in the study.
 - 3) Include copies of publications.

REPUBLIC OF PANAMA
MINISTRY OF ECONOMY AND FINANCE

Executive Decree No. 25

Of April 29, 2009.

“Which regulates Article 71 of Law 41 of July 1, 1998, the General Environmental Law of Panama”.

THE PRESIDENT OF THE REPUBLIC,
exercising his constitutional and legal authority,

CONSIDERING:

That Article 120 of the Political Constitution of the Republic of Panama establishes that “the State shall regulate, supervise and opportunely apply the necessary measures to guarantee that the utilization of terrestrial, fluvial and marine fauna as well as forests, lands and waters, be carried out rationally, in order to prevent their devastation and guarantee their preservation, renovation and permanence”.

That Article 71 of Law 41 of 1998 establishes that “the National Environmental Authority shall be the competent entity on the basis of the provisions set forth in the present Law and its regulations, for purposes of regulating, supervising and controlling access to and use of biogenetic resources in general, with the exception of the human species, while respecting intellectual property rights. In order to fulfill this function, it shall develop and introduce legal instruments and/or economic mechanisms. The right to utilize natural resources does not entitle the holders to utilize the genetic resources contained within them.”

That under Law 2 of January 12, 1995, the Republic of Panama ratified the Convention on Biological Diversity, which establishes as its fundamental objective to ensure the fair and equitable participation in the benefits that are derived from the utilization of the genetic resources; and recognizes the intrinsic value of biological diversity and of its ecological, genetic, social, economic, scientific, educational, cultural, recreational and aesthetic values.

That Article 1 of Law 24 of June 7, 1995, states that “wildlife is part of the natural patrimony of Panama, and is declared to be in the public domain for purposes of its protection, conservation, restoration, research, management and development of genetic resources, as well as species, breeds and varieties of wildlife, for the benefit and safeguarding of natural ecosystems, including those species and varieties introduced into the country and which, in the process of adaptation, have undergone genetic changes in the various ecosystems”.

That Article 58 of Executive Decree 43 of July 7, 2004, establishes that “everything related to bioprospecting or biological prospecting shall be subject to special regulation, without prejudice to the provisions of the legislation in force”.

That the 2005-2009 Conservation Strategy for Sustainable Development of the National Environmental Authority, establishes the strategic objectives and guidelines for the conservation and sustainable utilization of the country’s biological diversity, and urges that support be given to scientific programs associated with the country’s genetic resources, through the creation of norms and new tariffs on bioprospecting activities and the creation of research directives for genetic resources in alliance with the National Secretariat of Science, Technology and Innovation.

That the present reform arises from a broad process of consultation with the scientific community, governmental organizations, non-governmental organizations and the public in general.

DECREES:

Article One: To approve the regulations of Article 71 of Law 41 of July 1, 1998, as follows:

TITLE 1
GENERAL PROVISIONS
CHAPTER 1
OBJECTIVES AND SCOPE

Article 1. The objectives of the present Decree are:

- a) To regulate access to the genetic and/or biological resources whose origin or provenance is the territory of the Republic of Panama, in order to ensure the conservation of biological diversity and the sustainable use of its components as a mechanism for maintaining and improving the quality of life of the country's inhabitants.
- b) To regulate access to the knowledge, innovations and traditional practices associated with the use of the genetic and/or biological resource.
- c) To establish an appropriate system for accessing genetic and/or biological resources based on free, prior and informed consent, and in mutually agreed upon terms, which will ensure the fair and equitable distribution of benefits which result from access to the genetic and/or biological resources, both for the Panamanian State and for the parties providing the resources.
- d) To establish the procedures for facilitating contracts and letters of commitment for the use, collection, manipulation, transfer and information of genetic and/or biological resources associated with wildlife, whether of a commercial or non-commercial nature.
- e) To ensure the creation and development of scientific, technical and technological capacities at the local and international level, related to the use of its genetic and/or biological resources.
- f) To encourage the participation of national universities and research and development centers in basic and bioprospecting research, together with international counterparts.
- g) To promote and facilitate the transfer of appropriate technologies for the providers of genetic and/or biological resources, the Panamanian scientific community and the State as a provider of genetic and/or biological resources.
- h) To strengthen the national capacity for negotiating agreements or contracts related to the topic of access to genetic and/or biological resources and the distribution of their benefits.
- i) To provide a mechanism of access to genetic and/or biological resources, through the sustainable use of these resources throughout the country, with special emphasis on protected areas, biological corridors and buffer zones.
- j) To approve investment in research projects related to biodiversity and wildlife elements in protected areas and biological corridors

Article 2. The present Executive Decree shall regulate access to those genetic and biological resources for which Panama is the country of origin or provenance, regardless of whether they are wild or domesticated or found in *ex situ* or *in situ* conditions, and derivatives of these resources, and the genetic resources of

migratory species which through natural causes are found within the territory of Panama; as well as regulating the procedures for access to the knowledge, innovations and traditional practices associated with the use of genetic and/or biological resources, and to the benefits derived from commercial or other types of utilization of these resources, with the exception of human genetic resources.

CHAPTER II BASIC DEFINITIONS

Article 3. The terms defined in Article 2 of the Convention on Biological Diversity, ratified by the Republic of Panama under Law 2 of January 12, 1995, shall apply to this Decree. The following definitions shall also apply, for purposes of this Decree::

Access to Genetic and/or Biological Resources: Process which includes the obtainment and utilization of genetic and/or biological resources and/or their derivatives, associated with native wildlife, in *ex situ* or *in situ* conditions, through the free, prior and informed consent of the State or possessor of the resource, for purposes of basic scientific, industrial or commercial research.

Material Transfer Agreement: Contract which establishes the terms and conditions for the transfer of a genetic and/or biological resource or material, when one of the parties intends to use the resource or material for research purposes; in which the rights and duties of both of the provider and user are defined with respect to the use of the resource, materials or any of their derivatives, as determined by the legislation in force.

Competent National Authority: Public entity designated by the national laws for contracting, negotiating or authorizing access to genetic and/or biological resources associated with wildlife.

Biodiversity or Biological Diversity: The array of living organisms from any source, including terrestrial, marine and other aquatic ecosystems, and the ecological complexes of which they form a part. This includes the diversity within each species, among species and within ecosystems.

Bioprospecting or Biological Prospecting: Any activity directed toward exploring, collecting, systematically searching, classifying, researching and developing new sources of chemical compounds, genes, proteins, microorganisms and other products with current or potential economic value which are found within the biodiversity; directed particularly, but not exclusively, toward the development of biotechnological products and their commercialization or industrial application.

Modern Biotechnology: The application of *in vitro* nucleic acid techniques, including recombinant deoxyribonucleic acid (DNA) and the direct injection of nucleic acid into cells or organelles, or the fusion of cells beyond the taxonomic family, which surpass the natural physiological barriers to reproduction or recombination and which are not techniques used in traditional reproduction or selection.

Letter of Commitment: Agreement in which the petitioner promises to order to fulfill the commitments of the Access Contract, to present progress reports on contract fulfillment, and to safeguard the intellectual property rights of the communities that contribute knowledge on the genetic resources.

Ex Situ Conservation Center: Entity recognized by the National Environmental Authority for the collection and conservation of the components of biological diversity, including the genetic and/or biological resources contained within these components, outside of their natural habitat.

Certificate of Origin or Provenance: Legal recognition by the National Environmental Authority of the origin or provenance of the genetic and/or biological resource, the genetic heritage of which comprises the genetic material from which procedures or other products are derived.

Ex Situ Condition: Conditions in which the components of biological diversity (genetic resources) are conserved outside of their natural habitat.

Traditional Knowledge: Group of knowledge, customs, traditions, world view, spiritual and religious beliefs, folklore manifestations, artistic manifestations and any other form of traditional expression of indigenous and local communities which form a part of their cultural, spiritual or historical heritage and are in permanent evolution.

Free Prior Informed Consent: Authorization granted by the provider of a genetic or biological resource or associated traditional knowledge to the petitioner, for the performance of a specific activity which implies access to and utilization of this resource and/or knowledge.

Access Contract: Agreement of wills between the State and a petitioner, authorizing the performance of basic research (commercial and non-commercial) and/or bioprospecting research (commercial) and establishes the terms and conditions for obtaining the genetic and/or biological resources and associated traditional knowledge, as a result of the issuance of the access permit or authorization.

Benefits Contract: Agreement between the petitioner and the possessor of the genetic resource or material or traditional knowledge, defining the monetary and non-monetary benefits that result from the use and utilization of the genetic and/or biological resource or from its derived products and processes, and from the commercialization of the results of the basic research (commercial and non-commercial) and bioprospecting research, as a consequence of the issuance of the permit or authorization for access.

Distribution of Benefits: Measures to promote and guarantee the just and equitable participation in the monetary and non-monetary benefits which result from access to the genetic and/or biological resources, including access to and transfer of technology and biotechnology and participation in research and development activities related to the genetic and/or biological resources associated with wildlife.

Genetic Diversity: Variability of genes and genotypes between species and within them, or part of all of the genetic information contained in the biological resources.

Entity under Special Regimen: Institutions or special regimens of territorial administration conferred by the Constitution and the laws of the Republic, such as Indigenous Reservations, Municipalities and the Panama Canal Authority, among others.

Species: Group of living beings that have certain characteristics in common which distinguish them from other similar groups, and which reproduce among themselves, whether in fact or potentially.

Endangered Species: A species whose population has been declared endangered because it has been reduced numerically to a critical level due to considerable modification of its habitat, in accordance with the resolutions of the international agreements ratified by Panama and the national legislation in force.

Commercial and Industrial Purposes: Activity that is carried out for the purpose of obtaining an economic benefit, including a profit, whether in cash or in goods, or with the intention of selling it, exchanging it or providing a service or other form of utilization or economic benefit.

Non-Commercial Purposes: Activity that does not have the goal of making a profit and is carried out between two entities that participate in a cooperative conservation program in which the participation and support of one or more entities is foreseen.

Innovation: Materialization of the advances that are derived from the accumulated knowledge and which is made concrete through the creation, introduction, sale and dissemination of new and improved practices, products and procedures.

Invention: Any idea that is applicable in practice for the solution of a specific technical problem; it may be a product or procedure, the special use of a product or the non-evident use of the product. The invention of a product includes, among other things, any substance, compound or material, and any item, apparatus, machine, equipment, mechanism, device or other tangible object or result, as well as any of its parts. The invention of a procedure includes, among other things, any method, system or sequence of stages leading to the manufacture or obtainment of a product or a result, as well as the use or application of a procedure or product for the obtainment of a specific result.

Applied Research: Practical application of knowledge for the benefit of society.

Basic Research: Also known as fundamental research or pure research, carried out mainly for the purpose of learning about the foundations of phenomena without attending to particular applications. It contributes to the generation and broadening of knowledge, the formulation of new hypotheses or theories, or the modification of those already in existence.

Scientific Research: Procedure used to search for knowledge or solutions to problems of a scientific nature, and characterized as reflexive, systematic, methodic and objective. Scientific research is developed through scientific method, which is the collection of data and information through observation and experimentation, and the formulation and validation of hypotheses. Scientific research provides information, knowledge and theories to explain nature and properties of the world around us, making practical applications when possible.

Usage Licenses: Authorization to exploit an intellectual property right, as well as the technical and commercial knowledge, methods, procedures and standardized techniques for the manufacture, distribution or commercialization of a product, the provision of a service or the application of a procedure to another person, for a determinate or indeterminate period of time.

Obligatory License: Authorization issued for reasons of public health or national emergency, which permits the production or importation of products and/or technologies without the consent of the possessor of the intellectual property right, guaranteeing adequate compensation to the possessor.

Patents: Exclusive rights granted by the State through an administrative act, to exclude third parties from the exploitation of an invention.

Intellectual Property: Group of rights and powers granted by the Law to the creator, inventor, innovator or author of a scientific, artistic or literary work or of an invention, in order to benefit from the work or invention in an exclusive manner during a determinate period of time.

Derived Product: Any chemical compound which has been obtained from the material, an analog of this compound, a synthetic counterpart of this compound, a variation which is structurally based on the compound or which in some other manner is produced using a substantial part of the information contained in, or suggested by, the genetic or biological resource and/or genetic material capable of expressing these compounds.

Provider of Traditional Knowledge: Community or group which possesses the knowledge, innovations or traditional practices associated with the genetic resource, and is able to grant free prior informed consent in accordance with the legislation in force and with common law, and to negotiate the terms for providing the associated traditional knowledge.

Provider of the Genetic or Biological Resource: An individual, legal entity or local community which holds title to the property in which the genetic or biological resources are contained, in accordance with the national legal ordering, in order to participate in the decision-making process directed toward granting free prior informed consent, and to negotiate the mutually agreed upon terms to provide the genetic or biological resource associated with wildlife.

Royalties: Payment of any kind agreed upon between the parties for the use of intellectual property or other rights, commercial or scientific procedures, as well as the amounts paid for the transfer of technology or information related to industrial, commercial or scientific experiences.

Sub-product or Derivative: The result of the intermediate stages of processing of one or more specimens, before obtaining the final product.

Wildlife: Group of species and specimens of flora, fauna or microorganisms that live or are found in the natural environment, even when bred in captivity or artificially reproduced, as well as their products, sub-products, parts and derivatives.

CHAPTER III

COMPETENT NATIONAL AUTHORITY

Article 4. The National Environmental Authority (ANAM, for its initials in Spanish) is the Competent National Authority (CNA) charged with exercising power, authority and specialized functions related to partial aspects or components of the environment or to the sustainable management of natural resources. Likewise, it has the power to regulate, supervise and control access to and use of genetic and/or biological resources in general, with the exception of the human species, and respecting intellectual property rights.

Article 5: The Unit for Access to Genetic Resources (UNARGEN, for its initials in Spanish) is created and assigned to the National Protected Areas and Wildlife Bureau of the National Environmental Authority.

Article 6: The UNARGEN will be responsible for:

- a) Receiving, processing and approving or rejecting all petitions of access to genetic and/or biological resources; collections for commercial, industrial and non-commercial purposes; all types of research that fall within the oversight of CITES and for any other purpose which implies the use of elements of wildlife and biodiversity.
- b) Issuing the certificate of origin or provenance of the genetic and/or biological resource, which will be annexed to all documentation related to the access authorization and to posterior petitions for new collections, transfers or contracts.
- c) Maintaining a record of Material Transfer Agreements and Free Prior Informed Consent.
- d) Supervising the fulfillment of the agreed upon commitments.
- e) Annual publication of the executive summaries of the authorized research, respecting information of a confidential nature accorded between the parties, or which can be considered patentable material or which for reasons of national security may not be divulged.
- f) Preparing and publishing the bi-annual bulletin of access petitions which have been approved, denied or are in process, and of the importation/exportation requests for scientific, academic or commercial purposes which are received during the semester period, or other information considered to be of interest.
- g) Supervising exportations of wild flora and fauna species in order to safeguard the subsequent rights and claims of the State in commercial permits;
- h) Monitoring, in coordination with the Competent Authority, fulfillment of the permits, contracts or agreements of access to marine and coastal genetic and/or biological resources.
- i) Supervising the faithful fulfillment of the Access Contracts and Benefits Contracts between the petitioning parties and providers.

j) Negotiating the Access Contracts with the petitioners.

Article 7. A single processing window is created within the Unit for Access to the Genetic Resource (UNARGEN) for handling petitions of access to genetic and/or biological resources, which will have the following functions:

- a) Receive, process and provide follow-up to the petitions addressed to the UNARGEN.
- b) Deliver the permits, authorizations, resolutions and certifications.
- c) Carry out other activities and functions which are assigned to it.

Article 8. The UNARGEN will have a period of forty-five (45) working days from the date of application to respond to petitions for access permits. This period includes all processing of the petition up to the point of approval or denial of the permit.

Article 9. The UNARGEN will support the local and indigenous communities in negotiations for the transfer of associated traditional knowledge, free prior informed consent and benefits contracts between the communities and petitioning parties.

Article 10. The UNARGEN will evaluate petitions of access in accordance with the principles of precaution, sustainable use and fair and equitable distribution of the benefits derived from the utilization of the genetic patrimony.

CHAPTER IV

THE TECHNICAL ADVISORY GROUP

Article 11. The Technical Advisory Group is created, to be comprised of national and/or international experts with a well-known scientific and technical record, in order to provide support, if necessary, in the process of evaluating petitions of access to the genetic resource using scientific criteria.

Article 12. The opinion of the Technical Advisory Group must be submitted within twenty-five (25) working days following the date of consultation.

Article 13. The UNARGEN shall periodically publish in its biannual bulletin an updated list of the members of the Technical Advisory Group who will be providing support in the evaluation of petitions of access. All aspects related to their functions will be established by means of legal regulation.

TITLE II

DOMAIN AND USE OF THE GENETIC AND BIOLOGICAL RESOURCES

CHAPTER 1

THE PETITION OF ACCESS

Article 14. : The petitions of access to genetic and/or biological resources, signed in the form of a sworn statement, shall be presented at the single processing window of the UNARGEN in accordance with the terms and procedures established in this Decree, and shall be numbered, dated and registered.

Article 15. Petitions of access for basic research, for purposes that are neither commercial nor industrial, carried out by students or research professors from national universities and research centers, shall be evaluated and processed by the UNARGEN.

Article 16. The authorization of access to genetic and/or biological resources is non-transferable and limited to the territory or area authorized for collection and to the genetic resources covered under the terms of the Access Contract. Any other use not provided for or identified in the original petition requires the submission of a new petition and the corresponding evaluation.

Article 17. Fees shall be set by administrative resolution of the ANAM for processing petitions of access to genetic and/or biological resources, collections, re-collections and transfers, in order to cover costs and promote orderly access to the resources, taking into consideration access for commercial, industrial and non-commercial purposes, and on the basis of the quantity, endemism or rarity of the species to be affected by the research.

CHAPTER II THE ACCESS CONTRACT

Article 18. The parties to the Access Contract shall be:

- a) The Panamanian State, represented by the ANAM;
- b) The petitioner of access;

Article 19. All Access Contracts shall include the following obligations to the State:

- a) To acknowledge the inalienable right of the State to claim present or potential benefits derived from the access.
- b) To acknowledge the right of the State to co-participate in future benefits from commercial or industrial applications or economic utilization in subsequent stages of the basic research.
- c) To exempt the State from any responsibility for damages or prejudice caused to third parties through the authorized access;
- d) To present research progress reports.
- d) To declare the origin and provenance of the genetic resource in all publications or summaries which incorporate the genetic and/or biological resource collected.
- f) To present the ANAM with two (2) copies of the publications produced as a result of the studies, in the Spanish language.
- g) To present Certification of the origin and provenance of the genetic material, genetic and/or biological resource used in the development of the invention in all patent requests submitted to the Directorate General of the Industrial Property Registry of the Ministry of Commerce and Industries and/or any patent office of the member nations of the World Intellectual Property Organization (WIPO)

Paragraph: Access Contracts which include transfers of biological material must include an additional clause regulating the terms of the transfer and the benefits to the Panamanian State.

Article 20. Contracts of Access to genetic and/or biological resources for research and/or potential applications for commercial, industrial or bioprospecting purposes, shall include additional commitments to the State:

- a) To incorporate national scientific institutions, researchers, scholars and students into the tasks of collecting, marking, researching, cataloguing and other activities related to the authorized research.
- b) To inform the scientific community on the progress and developments of the research in progress
- c) Any other commitment agreed upon between the parties.

Article 21. Agreements between the petitioner and provider of the genetic or biological resource must be communicated to the UNARGEN, prior to signing the Access Contract.

Article 22. The Access Contracts will be valid for a period determined by the UNARGEN.

CHAPTER III

FREE PRIOR INFORMED CONSENT

Article 23. Any petition involving access to genetic and/or biological resources found within private areas, local communities, indigenous communities or under special regimen, or involving associated traditional knowledge, must obtain the Free Prior Informed Consent (FPIC) of the provider of the genetic or biological resource or associated traditional knowledge.

Article 24. THE FPIC is an accessory contract to the petition of access, in which the obligations and rights between the petitioner and provider of the genetic or biological resource and/or associated traditional knowledge are determined, in keeping with the national strategies and policies on biodiversity, wildlife, the National System of Protected Areas and the Convention on Biological Diversity.

Article 25. The petitioner shall sign the FPIC, as applicable, together with:

- a) The owner or possessor of the land where the biological resource which contains the genetic resource is found.
- b) The owner or possessor of the biological resource which contains the genetic resource.
- c) The representatives of the local communities.
- d) The representatives of the indigenous communities which possess the associated knowledge.

Article 26. The FPIC between the petitioner and provider of the genetic or biological resource must be communicated to the UNARGEN prior to signing the Access Contract, together with the Letters of Commitment and Benefits Contracts which derive from this. The corresponding certification of authority must be presented, establishing the competence of the provider to sign the FPIC.

Article 27. The FPIC must be based on the specific uses for which it is granted. Any change in use, including its transfer to third parties, requires a separate free prior informed consent.

Article 28. When the commercial or research project involves Traditional Knowledge associated with the genetic resource, the FPIC must contemplate pertinent aspects of the Intellectual Property rights.

CHAPTER IV

TRANSFER

Article 29. Any individual or legal entity holding genetic and/or biological material or resources in *ex situ* conditions must declare these to the UNARGEN and establish an agreement of responsibility with the UNARGEN for the appropriate care and management. All transfers of *ex situ* biological material must be registered with the UNARGEN.

Article 30. In order to issue permission for transfer of the corresponding genetic and/or biological material or resource between the provider and the recipient of the resource or material, a Material Transfer Agreement between the provider and recipient of the resource or material must be signed.

Article 31. Contracts of access to genetic and/or biological resources which also include access to and transfer of knowledge, innovations or traditional practices of indigenous or local communities, must attach the free prior informed consent, which must contemplate pertinent aspects of the Intellectual Property rights coincidental with the Benefits Contract.

Article 32. Authorization of access to the genetic and/or biological resource does not imply obligatory access to knowledge, innovations or traditional practices associated with the authorized resource.

Article 33. The fee for the loan or transfer of the genetic and/or biological resources shall be established by administrative resolution of the ANAM, according to the conservation category, and shall be revised every two years or upon the request of the Technical Advisory Group.

CHAPTER V

TRADITIONAL KNOWLEDGE

Article 34. The UNARGEN will collaborate with the authorities of the local and indigenous communities in the classification and registration of the knowledge, innovations and traditional practices they see fit to order.

Article 35. Traditional knowledge, innovations and practices associated with the genetic and/or biological resources which are in the public domain, and for which the origin or provenance can be certified, will make it possible to ensure compensation to the corresponding community.

Article 36. The UNARGEN shall meet once a year with the authorities of the local and indigenous communities to review the state of execution of these commitments and accessory contracts.

CHAPTER VI

SPECIAL ACCOUNT FOR ACCESS TO THE GENETIC AND BIOLOGICAL RESOURCE

Article 37. The ANAM shall create the Special Account for Access to the Genetic and Biological Resource, within the Wildlife Fund, established under Law 24 of June 7, 1995, which shall be comprised of the resources derived from the Benefits Contracts; initial payments, milestone payments, royalties, usage licenses and other sources of income derived from the use of the genetic and/or biologic material or resources.

Article 38. The funds derived from access to and use of the genetic and/or biological resource and deposited in the Special Account for Access to the Genetic and Biological Resource, shall be used to:

1. Support the development of training and scientific and technological research in national institutions which work for the conservation of biodiversity, sustainable use and utilization of Panamanian genetic and/or biological resources. Priority shall be given to those activities which promote:
 - a) The training of communities that provide traditional knowledge, innovations and practices, in their efforts to strengthen and defend their knowledge and cultural identity;
 - b) The participation of Panamanian researchers, scientists, functionaries and students in bioprospecting activities or other scientific activities;
 - c) The advancement of students and professionals in environmental and social sciences in the national universities and centers of scientific and technologic interest.
2. Supply the funds for the remuneration and functioning of the Technical Advisory Group.
3. Provide the funds required to cover the expenses involved in supervising the process.

TITLE III

BENEFITS CONTRACTS AND DISTRIBUTION OF BENEFITS

Article 39. All petitions of access must include a proposal for a Benefits Contract between the parties and the Panamanian State. The Benefits Contracts shall be negotiated by the UNARGEN and signed on behalf of the Republic of Panama, by the General Administrator of the National Environmental Authority. The terms for negotiation of the Benefits Contract shall be negotiated by the parties and established in the access contract. The parties shall negotiate the Benefits Contract in which the economic and non-economic benefits to the Panamanian State, the intellectual property rights, royalties and other benefits must be established.

Article 40. The petitioning party must establish a Benefits Contract with the State once it enters a phase of economic benefit which has not been foreseen in the first petition of access, establishing the terms of the monetary and/or non-monetary benefits on the basis of royalties, commercial licenses or other benefits contained in the regulations governing intellectual property.

Article 41. Commitments to pay the Panamanian State for projects with commercial and industrial purposes shall include the following components:

- a) Negotiable annual royalties of not less than one percent (1%) of the net sales.
- b) A payment at the onset of the project for a sum agreed upon between the parties.
- c) Other periodic or non-periodic payments agreed upon between the parties.

In the case of zoobreeders and nurseries, the payment of the negotiated royalties may be made on the basis of the liberation and return to the environment of the annual production, as deemed appropriate by the competent national authority, according to the species, distribution and population.

Article 42. The Benefits Contract with the party requesting access for research projects with commercial and industrial purposes, shall include the following commitments:

- a) Negotiable annual payments based on the annual research budget, deposited into the Special Account for Access to the Genetic and Biological Resource of the Wildlife Fund.
- b) Milestone payments in the development and commercialization of a product derived from the genetic and/or biological material or resource, by agricultural, pharmaceutical and other types of research, to be negotiated, prior to signing the Benefits Contract.
- c) The Panamanian State reserves the right to grant obligatory licenses on invention patents granted in Panama, derived from research carried out with genetic or biological resources collected in the national territory or from their derivatives, on the basis of national interest, in accordance with the Law and international regulations.
- d) Co-participation of the Panamanian State in all industrial or commercial contracts linked to the use of the genetic and/or biological material or its derivatives.
- e) The commitments and benefits of annual payments of royalties or their equivalent from the net income from sales of the final product, to be paid to the Panamanian State, shall be negotiated by the ANAM and the petitioning companies or centers.

Article 43. Benefits Contracts between private or collective proprietary parties or those under special regimen for the provision of genetic and/or biological resources or knowledge, innovations or traditional practices, shall be communicated to the UNARGEN.

Article 44. Benefits Contracts with third parties, subscribed by one of the parties petitioning for the genetic and/or biological resource and the private, collective or special regimen proprietary parties or providers of traditional knowledge which have signed contracts, must, prior to signing the benefits contracts, incorporate the terms of the benefits to the State in accordance with the guidelines of this Decree, and be communicated to the UNARGEN.

TITLE IV
ADMINISTRATIVE INFRACTIONS
CHAPTER I
PROHIBITIONS

Article 45. All petitions of access to areas used by indigenous communities for sacred, religious or similar purposes, which hold spiritual value and the preservation of which is indispensable for their cultural identity, shall be denied.

Article 46. All petitions of access to genetic and/or biological resources for research which is tied to, incorporated into or has foreseen applications in the sphere of genetic transfer or manipulation through the use of restricted technologies for the genetic use and utilization of modified living organisms, shall be promptly evaluated by the UNARGEN in accordance with the petition of access, and may be authorized or denied until such time that specific regulations are established.

Article 47. All petitions of access to genetic and/or biological resources with foreseen uses in environmentally harmful biological warfare, or which might seriously endanger human health, shall be denied and communicated to the competent authorities.

CHAPTER II
CANCELLATION OF ACCESS CONTRACTS

Article 48: The following shall be considered cause for cancellation of the access contract, in addition to the causes established in the corresponding juridical instrument and those contained in Article 99 of Law 22 of 2006:

- a) Non-fulfilment of the contractual clauses;
- b) Definitive physical incapacitation, in the case of an individual;
- c) Dissolution, in the case of a legal entity;
- d) When one of the individuals involved in the research has been sanctioned for an environmental infraction or convicted of a crime against the environment;
- e) When the activities linked to the authorized access cause manifest and demonstrable detriment to the environment and to health.
- f) When the activities linked to the authorized access cause manifest and demonstrable detriment to the cultural, social, economic and spiritual integrity of the indigenous communities.

CHAPTER III
SANCTIONS

Article 49. The following shall be considered offenses or infractions against the genetic patrimony:

- a) Fraud in the research contracts, permits or agreements;
- b) Excessive collection.
- c) Clandestine collection.
- d) Activities of access for scientific investigation without valid authorization.
- e) Utilization derived from the genetic or biologic resource or associated traditional knowledge, innovation or practice which is not regulated in the contract.
- f) Infractions against the genetic patrimony or associated traditional knowledge, innovation or practice.
- g) Submission, transfer or transportation of these resources without due authorization.
- h) Providing false information on the real activity of the research, collection, investigation, bioprospecting or technological development.
- i) Execution of activities with the intention of bypassing the regulatory function of control and access to genetic resources.

Article 50. Non-fulfilment of the provisions established in the present Executive Decree shall be sanctioned by:

- a) Written admonition.
- b) A fine imposed by the ANAM in accordance with the provisions of Article 114 of Law 41 of 1998. In the case of a juridical person, the fine shall be set according to the type of activity and the benefits derived from the products obtained.
- c) Temporary or definitive closure of the establishment or laboratory.
- d) Inability to contract with the State in order to access genetic and biological resources.
- e) Temporary or definitive cancellation of the access permit.

Article 51. Government organisms and entities must be prepared to implement the provisions of the present Decree within four (4) months of its publication in the Official Gazette. All interested parties with permits or contracts of access to genetic and/or biological resources which are in force at the time of publication of the present Decree in the Official Gazette, shall have a period of six (6) months to adjust their practices and instruments to the provisions of the present Decree.

Article 52. The present Executive Decree replaces Executive Decree 257 of October 17, 2006.

Article 53. The present Decree shall enter into effect at the time of its publication.

LEGAL BASIS: Law 41 of July 1, 1998; Law 35 of May 10, 1996; and Law 24 of June 7, 1995.

Handed down in Panama on the twenty-ninth (29) day of the month of April, 2006.

LET THIS HEREBY BE COMMUNICATED AND FULFILLED

MARTIN TORRIJOS ESPINO
President of the Republic of Panama

HECTOR E. ALEXANDER H.
Minister of Economy and Finance

**ACADEMIC COLLABORATIVE AGREEMENT BETWEEN THE SMITHSONIAN
TROPICAL RESEARCH INSTITUTE AND THE REGENTS OF THE
UNIVERSITY OF CALIFORNIA ON BEHALF OF ITS SAN DIEGO CAMPUS**

Amendment 1

WHEREAS the Smithsonian Tropical Research Institute ("STRI") and the Scripps Institution of Oceanography, University of California San Diego ("THE ACADEMIC COLLABORATOR") have entered into a Nonprofit-Academic Collaborative Agreement ("Agreement") executed August 21, 2009;

AND WHEREAS STRI and THE ACADEMIC COLLABORATOR (together the "Parties") wish to continue the biological research and studies under this Agreement;

NOW THEREFORE, the Parties agree to continue the Agreement for two (2) years, followed by an automatic extension of one (1) year.

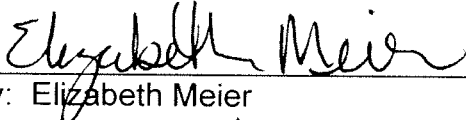
All other terms and conditions remain unchanged. This Amendment will enter into effect upon signing by the Parties.

AGREED

THE SMITHSONIAN TROPICAL
RESEARCH INSTITUTE

THE ACADEMIC COLLABORATOR

By: Dr. Eldredge Bermingham


By: Elizabeth Meier

Date: _____

Date: August 9, 2011