



MINISTERIO  
DE ECONOMÍA  
Y COMPETITIVIDAD

 **CSIC**  
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS  
REAL JARDÍN BOTÁNICO

Dear Dr. Shipunov

Madrid, 08 July 2015

Following the correspondence maintained with Dr. José Luis Fernández Alonso, related with a joint project for the study on the Phylogenetic of Aragoa species, we are sending you 24 samples of MA specimens, as listed in attached document. The shipment is being sent to the post office tomorrow.

Dr. Fernández Alonso had take care on the labeling (DNA sampling) of the specimens as indicated in the conditions for sampling herbarium specimens as well as taking photos of the labeled specimens.

Following our destructive sampling policy, we will be grateful if you send a copy of the extraction protocol together with an aliquot of extracted DNA, to be stored in our DNA bank. A 20 µl aliquot of each specimen, duly labeled, will be sufficient.

Please let us know when the shipment arrives to you, to be sure the samples arrives in good conditions.

If you need any further information please do not hesitate contacting us again.

Sincerely,

Charo Noya

--

\*\*\*\*\*  
M. Rosario Noya  
Jefa de la Unidad de Herbarios  
Collection Manager MA herbarium  
Real Jardín Botánico (CSIC)  
C/ Claudio Moyano 1 tlf. +34 91 420 3017  
E-28014 Madrid fax. +34 91 420 0157  
ESPAÑA (Spain)  
\*\*\*\*\*

PLAZA DE MURILLO, 2  
28014 MADRID ESPAÑA  
TEL: 91 420 30 17  
FAX: 91 420 01 57



MINISTERIO  
DE ECONOMÍA  
Y COMPETITIVIDAD



### REQUEST FOR DESTRUCTIVE SAMPLING OF HERBARIUM SPECIMENS

I understand that permission is NOT routinely granted for dissection or removal of material.

I understand that if authorization is granted for sampling general herbarium collections:

- A. Material found in the pockets should be considered first for sampling
- B. Samples may be removed from a specimen for a specific analysis by only one investigator, who should be prepared to share his preparations with other investigators. For DNA analysis, I will provide documentation that the sequences will be deposited with GenBank for worldwide access.
- C. Sampling will only be permitted where ample material is available on the specimen, and sampling will not diminish the scientific value of the specimen. If specifically requested, pollen or seeds may be removed judiciously. Pollen should not be removed from more than one flower per sheet. Leaf samples for DNA analysis (using PCR, polymerase chain reaction, micro-extractions) may not exceed one square centimeter per sheet.
- D. If light microscopy techniques are used, the Real Jardín Botánico may request that a duplicate permanent glass slide be deposited at MA. The slide label must include the taxon name and author, collector and collector's number, geographic origin of the sampled specimen, and the MA specimen number.
- E. For scanning electron microscope studies, a photograph should be deposited at MA, paper-clipped to the herbarium sheet upon return. The photograph should be labeled with the magnification and, on the back, with the same data as (D.) above.
- F. The borrower must affix a label to the sampled herbarium sheets, which includes the name and institution of the researcher, the date of removal of material from the specimen and purpose of removal (ex. DNA, anatomy, palynology, etc.).
- G. Any publication resulting from the use of plant material should acknowledge the **Real Jardín Botánico -CSIC**. A copy of any publication, report or data gained from the material MUST be sent to the **Real Jardín Botánico -CSIC**.

I understand and agree to the conditions and restrictions as stated.

I submit that the analysis of the samples is intended for academic research only, and is not for commercial purposes.

JOSE LUIS FERNANDEZ ALONSO  
Researcher name/title (print)  
REAL JARDIN BOTANICO . CSIC  
[Institution and address, requesting permission.]

Signature of researcher

2-VII-2015

Date

EN colaboracion con  
ALEXEY SHIPUNOV , Ph.D  
Assist. professor  
Curator of Minot State University Herbarium (MISU)  
Department of Biology Minot State University  
500 University Avenue West  
MINOT, ND 58707  
U.S.A.

RETURN SIGNED TO THE HERBARIUM OF THE REAL JARDIN BOTANICO-CSIC



MINISTERIO  
DE ECONOMÍA  
Y COMPETITIVIDAD



CSIC

CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



REAL JARDÍN BOTÁNICO (RJB)

HERBARIUM SPECIMENTS SAMPLED

We have reviewed the request and grant permission for the sampling of the following herbarium specimens, with the restrictions stated above.

LIST OF HERBARIUM SPECIMENTS SAMPLED:

Ver listado anexo.

M. Rosario Noya  
Collection Manager MA Herbarium  
by the Real Jardín Botánico-CSIC

—  
Signature

Date

v. Bns. J. Luis Fernández  
Director  
Herbario MA.

RETURN SIGNED TO THE HERBARIUM OF THE REAL JARDIN BOTANICO-CSIC

**Relación de muestras del género *Aragoa* (Plantaginaceae) enviadas por José Luis Fernández Alonso, desde MA, a Alexey Siphunov, herb. MISU, para adelantar estudios moleculares ( proyecto conjunto).**

- 1.*Aragoa abietina* : M. Hernandez-S.647 (MA)
- 2.*Aragoa aff. abscondita*: J.L. Fernández-Alonso 11676 (MA)
- 3.*Aragoa cleefii* : J.L. Fernández-Alonso 12653 (MA)
- 4.*Aragoa cleefii* : J.L. Fernández-Alonso 14537 (MA)
- 5.*Aragoa corrugatifolia*: J. Betancur 6938 (MA)
- 6.*Aragoa corrugatifolia*: J. Fernández-Alonso 7754 (MA)
- 7.*Aragoa cundinamarcensis*: J.L. Fernández-Alonso 12655 (MA)
- 8.*Aragoa cupressina* : J.L. Fernández-Alonso 5127 (MA)
- 9.*Aragoa x diazii* : S. Diaz-Piedrahita 2410 (MA)
10. *Aragoa dugandii* : B.V. Rodriguez 1409 (MA)
11. *Aragoa x funzana* : J.L. Fernández-Alonso 10533 (MA)
12. *Aragoa x funzana* : J.L. Fernández-Alonso 12656 (MA)
13. *Aragoa x jaramilloi* : J.L. Fernández-Alonso 8227 (MA)
14. *Aragoa x jaramilloi* : J.L. Fernández-Alonso 8229 (MA)
15. *Aragoa lucidula* ssp. *lucidula* : B. Stergios 20337 (MA)
16. *Aragoa lycopodioides* : P. Ortiz 17 (MA)
- 17.*Aragoa lycopodioides* : J.L. Fernández-Alonso 14471 (MA)
18. *Aragoa occidentalis* ssp. *occidentalis*: J.A Perez 2663 (MA)
19. *Aragoa parviflora* : H. García-Barriga 19793 (MA)
20. *Aragoa perez-arbelaeziana*: A.M. Díaz 87 (MA)
21. *Aragoa romeroi*: R. Romero-Castañeda 7540 (MA)
22. *Aragoa romeroi*: O. Rangel 13663 (MA)
23. *Aragoa tamana*: J.L. Fernández-Alonso 11841 (MA)
24. *Aragoa tamana*: J.L. Fernández-Alonso 11879 (MA)