Biochemical, nutritional, and toxicological properties of the edible species *Phlebopus beniensis* with ethnomycological notes from Paraguay

SUPPLEMENTARY MATERIAL

Table S1. *Phlebopus* species: specimens: origin,ITS and LSU Gen Bank accession numbers for sequences used in the phylogenetic analyses.. New sequence is highlighted in boldface. "---" = no sequence

Species **Voucher**	**Origin**	**ITS**	**LSU**
Boletinellus merulioides			
FLAS-F-61630	USA	MH212011	---
FLAS-F-61785	USA	MH399882	---
isolate 2630a	Canada	KM248952	---
AFTOL-ID 575	USA	DQ200922	---
NCJ12	USA	---	AY612807.1
Boletinellus rompelii			
AH 01	Brazil	MG996741	---
MAN 1064	Brazil	MG996740	---
MAN 1091	Brazil	MG996739	---
isolate No1192	USA	---	EU718159
MA-Fungi 49405	Brazil	AJ419192	---
Boletinellus exiguus			
CHC 053	Brazil	MG996738	---
ACM 336	Brazil	MG996737	---
MG09	Philippines	OK446762	---
MA-Fungi 47677	Brazil	AJ419185	---
MA-Fungi 49401	Brazil	AJ419183	---
Phlebopus sudanicus			
CBS481.89	Africa	---	AF336261
Phlebopus portentosus			
REH8795	Thailand	EU718111	FJ153623
FHMU5938	China	MW783457	MW783437
HKAS52855	China	---	JQ928622
FHMU5937	China	MW783456	MW783436
php1	Africa	EU718110	---
VDW1543	Sudafrica	MT304654	---
N.K.Zeng22 (FHMU1)	China	MW783453	MW783433
N.K.Zeng1186 (FHMU753)	China	MW783447	MW783427
N.K.Zeng5041 (FHMU5934)	China	MW783449	MW783429
FHMU5935	China	MW783452	MW783432
FHMU5936	China	MW783455	MW783435

Phlebopus mexicanus			
Cifuentes 233	Mexico	KM676001	---
UJAT:S.Cappello-2507	Mexico	KM676000	KM676002
Phlebopus beniensis			
VO1891	Mexico	MT939284	---
DS 1056	Brazil	MG996748	---
MAN 357	Brazil	MG996747	---
ACM 285	Brazil	MG996744	---
DLK 1024	Brazil	MG996746	---
ACM 265	Brazil	MG996742	---
Omon_98.015	Puerto Rico	---	AY612822
MC 455	**PARAGUAY**	**This work**	---
Phlebopus marginatus			
REH8883	Australia	EU718109	EU718145
MEL2145841	Australia	---	FJ600322
OKM23801	Australia	---	AY612816
Phlebopus roseus			
MY2017273	China	MK734170	MK734301
MY2017274	China	MK734175	MK734306
MY2017275	China	MK734171	MK734302
MY2017275_a	China	MK734173	MK734304
MY2017277	China	MK734172	MK734303
MY2017277_a	China	MK734174	MK734305
Phlebopus spongiosus			
CBMFB38014	Vietnam	---	NG060059
SDBR-CMU517	Thailand	---	MT183696
SDBR-CMU519	Thailand	---	MT184381
SDBR-CMU518	Thailand	---	MT184380
SDBR-CMU0517-1	Thailand	---	MT184327

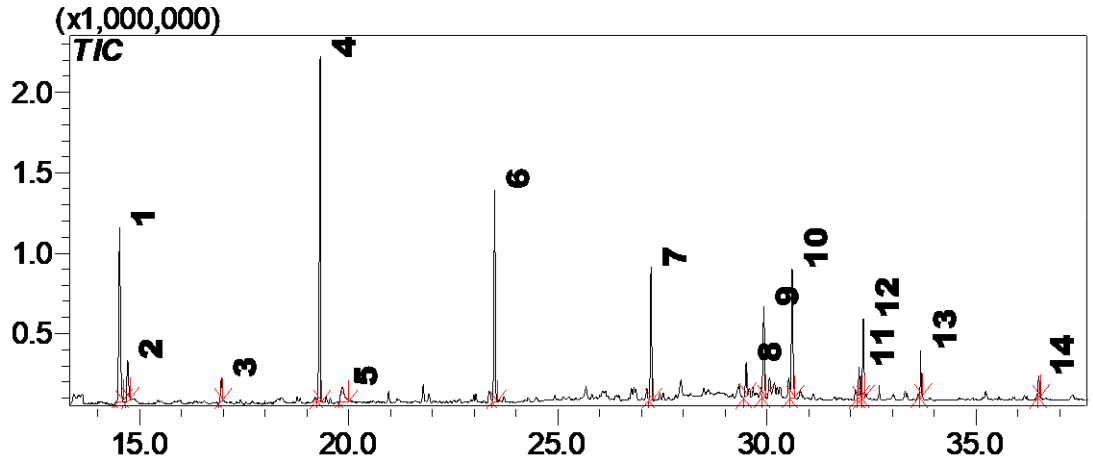

Figure S1. GC/MS Chromatogram of the ethyl acetate fraction. **1.** 1-Dodecene, **2.** Dodecane, **3.** Ethanol, 1-methoxy-, benzoate, **4.** 5-Octadecene, (E)-, **5.** Niacinamide, **6.** 1-Hexadecene, **7.** E-15-Heptadecenal, **8.** Hexadecanoic acid, methyl ester, **9.** n-Propyl 9,12-octadecadienoate, **10.** 1-Eicosanol, **11.** 9,12-Octadecadienoic acid, methyl ester, **12.** 9-Octadecenoic acid (Z)-, methyl ester, **13.** 1-Nonadecene, **14.** 1-Octacosanol.

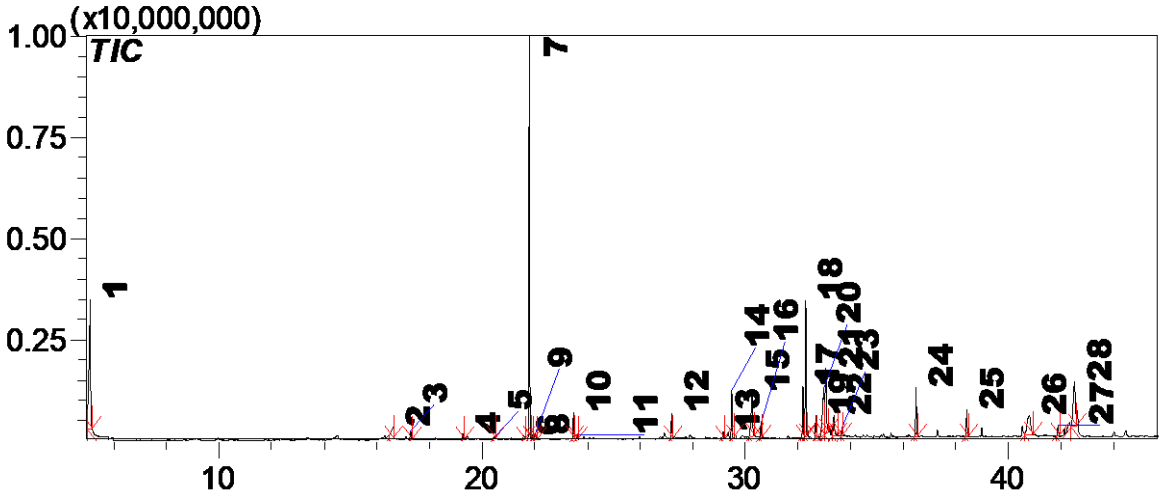

Figure S2. GC/MS Chromatogram of the diethyl ether fraction. **1.** Propanedioic acid, phenyl-, **2.** Indole, **3.** 1-Tetradecene, **4.** trans-Cinnamic acid, **5.** Formamide, N-(2-phenylethyl)-, **6.** Phenol, 3,5-bis(1,1-dimethylethyl)-, **7.** Acetamide, N-(2-phenylethyl)-, **8.** E-14-Hexadecenal, **9.** Hexadecane, **10.** E-15-Heptadecenal, **11.** 9-Hexadecenoic acid, methyl ester, (Z)-, **12.** Hexadecanoic acid, methyl ester, **13.** n-Hexadecanoic acid, **14.** 1-Nonadecene, **15.** 9,12-Octadecadienoic acid, methyl ester, **16.** 11-Octadecenoic acid, methyl ester, **17.** Octadecanoic acid, methyl ester, **18.** 9,12-Octadecadienoic acid (Z,Z)-, **19.** cis-Vaccenic acid, **20.** Octadecanoic acid, **21.** n-Nonadecanol-1, **22.** Hexanedioic acid, bis(2-ethylhexyl) ester, **23.** 1,2-Benzenedicarboxylic acid, mono(2-ethylhexyl) ester, **24.** Unknown, **25.** Squalene, **26.** Unknown.