

SUPPLEMENTARY MATERIALS

Morphological and Molecular Evidence of Microcystin-Producing *Microcystis aeruginosa* (Chroococcales, Cyanophyceae) from Pantabangan Lake, Nueva Ecija, Philippines

GARRY A. BENICO*¹ DANA THERESA C. DE LEON¹, JEPHE ERYL S. LAPITAN^{1,2}, TRISHA MAEKHYLLA KRAFT¹, KOYO KUWATA³ & MITSUNORI IWATAKI³

¹Department of Biological Sciences, Central Luzon State University, Science City of Muñoz, Nueva Ecija 3120 Philippines; ²Institute of Biological Sciences, University of the Philippines Los Baños, College, Laguna 4031, Philippines; ³Graduate School of Agricultural and Life Sciences, University of Tokyo, Tokyo 113-8657, Japan

*Corresponding author: gabenico@clsu.edu.ph

Table S1. List of cyanobacterial taxa and corresponding GenBank accession numbers used for phylogenetic reconstruction based on 16S rRNA gene sequences

Genus	Species / Taxon	Accession Number
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	MN383650
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	EU078506
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	MN383651
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	MN383652
<i>Microcystis</i>	<i>Microcystis flos-aquae</i>	MK598764
<i>Microcystis</i>	<i>Microcystis flos-aquae</i>	MK597925
<i>Microcystis</i>	<i>Microcystis flos-aquae</i>	MK598721
<i>Microcystis</i>	<i>Microcystis ichthyoblabe</i>	KJ818184
<i>Microcystis</i>	<i>Microcystis wesenbergii</i>	MG742742
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	AB066060
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	EU078505
<i>Microcystis</i>	<i>Microcystis wesenbergii</i>	MK742744
<i>Microcystis</i>	<i>Microcystis novacekii</i>	KJ818198
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	EU078486
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	AB066063
<i>Microcystis</i>	<i>Microcystis novacekii</i>	KJ818190
<i>Microcystis</i>	<i>Microcystis protocystis</i>	AB066054
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	AB066059
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	KJ818166
<i>Microcystis</i>	<i>Microcystis viridis</i>	KJ818180
<i>Microcystis</i>	<i>Microcystis ichthyoblabe</i>	KJ818187
<i>Microcystis</i>	<i>Microcystis bengalensis</i>	AB066082
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	EU078483
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	EU078497
<i>Microcystis</i>	<i>Microcystis viridis</i>	KJ818175
<i>Microcystis</i>	<i>Microcystis robusta</i>	AB066078
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	EU078499
<i>Microcystis</i>	<i>Microcystis protocystis</i>	MN724747
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	AB066064
<i>Microcystis</i>	<i>Microcystis aeruginosa</i>	EU078493
<i>Microcystis</i>	<i>Microcystis flos-aquae</i>	MK597717
<i>Microcystis</i>	<i>Microcystis aeruginosa</i> (study isolate)	GBTKPAN01
<i>Microcystis</i>	<i>Microcystis aeruginosa</i> (study isolate)	GBJLPAN01
<i>Synechocystis</i>	<i>Synechocystis</i> sp.	EU078508
<i>Synechocystis</i>	<i>Synechocystis</i> sp.	AB014937
<i>Synechocystis</i>	<i>Synechocystis</i> sp.	AB014936
<i>Gloeothece</i>	<i>Gloeothece membranacea</i>	MF781052
<i>Gloeothece</i>	<i>Gloeothece quzhouensis</i>	JX512748
<i>Gloeothece</i>	<i>Gloeothece aequatorialis</i>	MF781064
<i>Zehria</i>	<i>Zehria floridana</i>	AY620339
<i>Candidatus</i>	<i>Atelocyanobacterium thalassa</i>	MH807559
<i>Rippakea</i>	<i>Rippakea</i> sp.	AF298673
<i>Geminiocystis</i>	<i>Geminiocystis</i> sp.	KF246492
<i>Geminiocystis</i>	<i>Geminiocystis herdmanii</i>	AB039001
<i>Geminiocystis</i>	<i>Geminiocystis urbainovae</i>	MT463169

Table S1. (continued)

<i>Aphanothece</i>	<i>Aphanothece naegelii</i>	AY121354
<i>Rubidibacter</i>	<i>Rubidibacter lacunae</i>	EF126149
<i>Cyanobium</i>	<i>Cyanobium</i> sp.	AB196087
<i>Cyanobium</i>	<i>Cyanobium gracile</i>	NR_102447
<i>Aphanocapsa</i>	<i>Aphanocapsa salina</i>	KM020007
<i>Synechococcus</i>	<i>Synechococcus</i> sp.	HE975006
<i>Microcystis</i>	<i>Microcystis elabens</i>	AB017724
<i>Escherichia</i>	<i>Escherichia coli</i> (outgroup)	PO051553
<i>Shigella</i>	<i>Shigella sonnei</i> (outgroup)	OQ082861
<i>Escherichia</i>	<i>Escherichia fergusonii</i> (outgroup)	MN832962
