

Table S1. List of strains.

Taxon	Strain code	Genbank accession no.
<i>Phormidium ambiguum</i>	IAM M-71	AB003167
<i>Phormidium autumnale</i>	UTEX 1580	AY218830
<i>Phormidium tergestinum</i>	CCALA 155	EF654083
<i>Microcoleus chthonoplastes</i>	WW10	EF654058
<i>Lyngbya majuscula</i>	3L	EU315909
<i>Lyngbya bouillonii</i>	PAL08-16	GU111927
<i>Phormidium animale</i>	SAG 1459-6	EF654087
<i>Tychonema bourrellyi</i>	CCAP 1459/11B	AB045897
<i>Planktothrix agardhii</i>	1459/11A	GQ994999
<i>Planktothrix agardhii</i>	NIES-205	AB045955
<i>Petalonema</i> sp.	ANT.LG2.8	AY493624
<i>Gloeotrichia echinulata</i>	PYH14	AM230704
<i>Gloeotrichia echinulata</i>	PYH6	AM230703
<i>Sphaerospermopsis aphanizomenoides</i>	04-43	FM161350
<i>Dolichospermum flos-aquae</i>	04-40	FM242087
<i>Dolichospermum mendotae</i>	04-33	FM242085
<i>Dolichospermum mendotae</i>	04-45	FM242084
<i>Dolichospermum flos-aquae</i>	04-53	FM242088
<i>Dolichospermum circinale</i>	04-26	AM940218
<i>Dolichospermum circinale</i>	04-28	AM940219
<i>Tolypothrix</i> sp.	IAM M-259	AB093486
<i>Calothrix</i> sp.	PCC 7101	AB325535
<i>Tolypothrix</i> sp.	PCC 7504	FJ661004
<i>Tolypothrix</i> sp.	TOL328	AM230706
<i>Tolypothrix</i> sp.	PCC 7415	AM230668
<i>Coleodesmium</i> sp.	ANT.L52B.5	AY493596
<i>Nostoc calcicola</i>	Ind30	HM573461
<i>Nostoc edaphicum</i>	X	AJ630449
<i>Chlorogloeopsis fritschii</i>	PCC 6718	AF132777
<i>Chlorogloeopsis fritschii</i>	PCC 6912	AB093489
<i>Fischerella muscicola</i>	PCC 7414	AF132788
<i>Fischerella major</i>	NIES-592	AB093487
<i>Fischerella thermalis</i>	PCC 7521	AB075987
<i>Hapalosiphon hibernicus</i>	BZ-3-1	EU151900
<i>Nostochopsis lobatus</i>	92.1	AJ544080
<i>Fischerella muscicola</i>	SAG 1427-1	AB075985
<i>Hapalosiphon delicatulus</i>	IAM M-266	AB093484
<i>Westiellopsis prolifica</i>	SAG 16.93	AJ544086
<i>Scytonema</i> cf. <i>crispum</i>	UCFS21	JN565278
<i>Stigonema ocellatum</i>	SAG 48.90	AJ544082
<i>Tolypothrix</i> sp.	CCMP1185	AB075998
<i>Symphyonema</i> sp.	1269-1	AJ54408
<i>Scytonema hoffmannii</i>	PCC 7110	AB075996
<i>Scytonema</i> cf. <i>fritschii</i>	UCFS22	JN565281

<i>Brasilonema terrestre</i>	CENA116	EF490447
<i>Brasilonema octagenarum</i>	UFV-OR1	EF150855
<i>Brasilonema roberti-lammi</i>	str. los manantiales1	GQ443308
<i>Brasilonema octagenarum</i>	UFV-E1	EF150854
<i>Brasilonema octagenarum</i>	HA4186-MV1	HQ847562
<i>Chakia gen. nov.</i>	strain27	KC875346
<i>Chakia gen. nov.</i>	strain3	KC875343
<i>Chakia gen. nov.</i>	strain5	KC875344
<i>Chakia gen. nov.</i>	strain8	KC875345
