

Supporting Information

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Table S1. List of cyanobacterial strains analyzed in this study

Strain	Strain ID	Culture medium	Inclusions
Subsection I			
<i>Chamaesiphon minutus</i>	PCC 6605	BG11	PolyP
<i>Cyanobacterium aponinum</i>	PCC 10605 ^T	BG11	Numerous PolyP
<i>Cyanobacterium stanieri</i>	PCC 7202 ^T	BG11 + 10%ASN-III	PolyP
<i>Cyanobium gracile</i>	PCC 6307 ^T	BG11 _o -NaHCO ₃	PolyP
<i>Cyanothece</i> sp.	PCC 7424	BG11	PolyP
<i>Cyanothece</i> sp.	PCC 7425	BG11	PolyP+ CaCO ₃
<i>Cyanothece</i> sp.	PCC 8801	BG11 _o	PolyP
<i>Dactylococcopsis salina</i>	PCC 8305	ASN-III + Turks 4x	PolyP
<i>Geminocystis herdmanii</i>	PCC 6308 ^T	BG11	PolyP
<i>Gloeobacter violaceus</i>	PCC 7421	BG11	Two PolyP per cell
<i>Gloeocapsa</i> sp.	PCC 73106	BG11 _o -NaHCO ₃	Numerous PolyP
<i>Gloeocapsa</i> sp.	PCC 7428	BG11 _o -NaHCO ₃	None
<i>Microcystis aeruginosa</i>	PCC 7806	BG11 _o -NaHCO ₃	PolyP
<i>Synechococcus elongatus</i>	PCC 6301	BG11	One or two PolyP per cell
<i>Synechococcus</i> sp.	PCC 6716	BG11	PolyP + CaCO ₃
<i>Synechococcus</i> sp.	PCC 6717	BG11	PolyP + CaCO ₃
<i>Synechococcus</i> sp.	PCC 6312	BG11	PolyP + CaCO ₃
<i>Synechococcus</i> sp.	PCC 7002	ASN-III + vitB12	Aligned PolyP
<i>Synechococcus</i> sp.	PCC 7335	ASN-III	PolyP
<i>Synechococcus</i> sp.	PCC 7502	BG11 _o -NaHCO ₃	PolyP
<i>Synechocystis</i> sp.	PCC 6803	BG11	PolyP
<i>Synechocystis</i> sp.	PCC 7509	BG11	Small and few PolyP
<i>Synechococcus</i> sp.	JA-3-3Ab	BG11	PolyP
<i>Thermosynechococcus elongatus</i>	BP-1	BG11; DTN	PolyP + CaCO ₃
<i>Candidatus Gloeomargarita lithophora</i>	D10	BG11; BG11 _o ; BG11 _o -10%BG11; BG11 _o -10%ASN-III; BG11 _o -10%BG11-NaHCO ₃ ; BG11 _o -ASN-III 1:1	PolyP + CaCO ₃
<i>Candidatus Synechococcus calcipolaris</i>	G9	BG11; ASN-III-vitB12; BG11 _o -10%BG11 ; BG11 _o -10%BG11-NaHCO ₃	PolyP + CaCO ₃
Subsection II			
<i>Chroococidiopsis</i> sp.	PCC 6712	BG11	Very few PolyP
<i>Chroococidiopsis thermalis</i>	PCC 7203	BG11	PolyP + CaCO ₃
<i>Pleurocapsa</i> sp.	PCC 7319	ASN-III + vitB12 + 5 mM NaHCO ₃	None
<i>Pleurocapsa</i> sp.	PCC 7327	BG11	Few PolyP
<i>Stanieria cyanosphaera</i>	PCC 7437	BG11 _o -NaHCO ₃	None
Subsection III			
<i>Arthrospira</i> sp.	PCC 8005	ASN-III + BG11	None
<i>Coleofasciculus chtonoplastes</i>	PCC 7420	ASN-III + BG11	PolyP
<i>Geitlerinema</i> sp.	PCC 7105	ASN-III + vitB12	PolyP here and there
<i>Geitlerinema</i> sp.	PCC 7407	BG11	Aligned PolyP
<i>Leptolyngbya boryana</i>	PCC 6306	BG11	One or two PolyP per cell
<i>Leptolyngbya</i> sp.	PCC 6406	BG11 + 10%ASN-III	One PolyP per cell
<i>Leptolyngbya</i> sp.	PCC 7375	ASN-III + vitB12	Few PolyP
<i>Leptolyngbya</i> sp.	PCC 7376	ASN-III + vitB12	1 PolyP per cell
<i>Microcoleus</i> sp.	PCC 7113	BG11 _o -NaHCO ₃	PolyP
<i>Nodosilinea nodulosa</i>	PCC 7104	BG11 _o -NaHCO ₃	PolyP
<i>Oscillatoria acuminata</i>	PCC 6304	BG11	None
<i>Oscillatoria formosa</i>	PCC 6407	BG11	Few PolyP inclusions
<i>Oscillatoria</i> sp.	PCC 10802	BG11 _o + 10%BG11	None
<i>Oscillatoria</i> sp.	PCC 6506	BG11	Aligned PolyP
<i>Prochlorothrix hollandica</i>	PCC 9006 ^T	BG11 _o + 1.8 mM NaNO ₃	Aligned PolyP
<i>Pseudanabaena</i> sp.	PCC 6802	BG11 _o + 10%BG11 + 1 mM NaHCO ₃	PolyP
<i>Pseudanabaena</i> sp.	PCC 7367	ASN-III	PolyP
<i>Pseudanabaena</i> sp.	PCC 7429	BG11	Aligned PolyP
<i>Spirulina major</i>	PCC 6313	ASN-III + BG11	PolyP
<i>Spirulina subsalsa</i>	PCC 9445	ASN-III + BG11	PolyP
<i>Lyngbya</i> sp.	PCC8106	ASN-III + BG11	None