

**S4 Table. Summary of NCBI accession numbers for *rbcLX*, *rpoC1*, and *nifD* nucleotide sequences obtained in this study.**

Strain	NCBI Accession		
	<i>rbcLX</i>	<i>rpoC1</i>	<i>nifD</i>
<i>Scytonema arcangeli</i> M09	KY417041	KY423285	KY416993
<i>Scytonema hyalinum</i> sp. 5 ATA-SAL-RM1	KY417083	KY423327	KY417035
<i>Scytonema hyalinum</i> sp. 5 HA4185-MV1	KY417084	KY423328	KY417036
<i>Scytonema arcangeli</i> THH60	KY417042	KY423286	KY416994
<i>Scytonema arcangeli</i> Valle de Zapotitlan	KY417046	KY423290	KY416998
<i>Scytonema hyalinum</i> sp. 2 F10-MK28	KY417044	KY423288	KY416996
<i>Scytonema hyalinum</i> sp. 3 HAF2-B2-c1	KY417081	KY423325	KY417033
<i>Scytonema hyalinum</i> sp. 4 HTT-U-KK4	KY417082	KY423326	KY417034
<i>Scytonema hyalinum</i> sp. 1 PT10-MK84	KY417045	KY423289	KY416997
<i>Scytonema hyalinum</i> sp. 1 FI5-JRJ03	KY417048	KY423292	KY417000
<i>Scytonema hyalinum</i> sp. 1 EM3-Z1-c02	KY417049	KY423293	KY417001
<i>Scytonema hyalinum</i> sp. 1 EM3-HA19	KY417050	KY423294	KY417002
<i>Scytonema hyalinum</i> sp. 1 EM3-HA25	KY417051	KY423295	KY417003
<i>Scytonema hyalinum</i> sp. 1 EM3-HA15	KY417052	KY423296	KY417004
<i>Scytonema hyalinum</i> sp. 1 EM3-HA20	KY417053	KY423297	KY417005
<i>Scytonema hyalinum</i> sp. 1CMT-1SWIN-NPC17	KY417076	KY423320	KY417028
<i>Scytonema hyalinum</i> sp. 1 CXA108-5-BZ	KY417074	KY423318	KY417026
<i>Scytonema hyalinum</i> sp. 1 CNP2-Z1-c01	KY417077	KY423321	KY417029
<i>Scytonema hyalinum</i> sp. 1 CMT-1BRIN-NPC31	KY417075	KY423319	KY417027
<i>Scytonema hyalinum</i> sp. 1 WJT71-NPBG27	KY417085	KY423329	KY417037
<i>Scytonema hyalinum</i> sp. 1 WJT73-NPBG6C	KY417086	KY423330	KY417038
<i>Scytonema hyalinum</i> sp. 1 WJT4-NPBG1	KY417078	KY423322	KY417030
<i>Scytonema hyalinum</i> sp. 1 WJT9-NPBG6A	KY417079	KY423323	KY417031
<i>Scytonema hyalinum</i> sp. 1 WJT9-NPBG6B	KY417080	KY423324	KY417032
<i>Scytonema hyalinum</i> sp. 1 DV1-KK3	KY417047	KY423291	KY416999
<i>Brasilonema</i> sp. CR06-4B/1	KY417056	KY423300	KY417008
<i>Brasilonema</i> sp. BZ-HDL-007	KY417055	KY423299	KY417007
<i>Brasilonema</i> sp. KEN-MK50	KY417059	KY423303	KY417011
<i>Brasilonema</i> sp. CR6-5A/1	KY417057	KY423301	KY417009
<i>Brasilonema</i> sp. M31-F20B	KY417058	KY423302	KY417010
<i>Brasilonema</i> sp. TH04-Ema	KY417061	KY423305	KY417013
<i>Brasilonema</i> sp. P09-MK13	KY417054	KY423298	KY417006
<i>Brasilonema</i> sp. PT5-MK70	KY417060	KY423304	KY417012
<i>Scytonema stuposum</i> M10-F15A	KY417066	KY423310	KY417018
<i>Scytonema</i> cf. <i>chiastum</i> M32-F26III	KY417064	KY423308	KY417016
<i>Scytonema</i> cf. <i>chiastum</i> F04-MK25	KY417062	KY423306	KY417014
<i>Scytonema</i> cf. <i>chiastum</i> GSE-NOS-MK14-07B	KY417063	KY423307	KY417015
<i>Hassallia</i> sp. CMT-1BRIN-NPC13	KY417069	KY423313	KY417021
<i>Hassallia</i> sp. CMT-1SZIN-NPC9	KY417070	KY423314	KY417022
<i>Hassallia</i> sp. CMT-2BRIN-HLNPC9	KY417071	KY423315	KY417023
<i>Hassallia</i> sp. CXA109-3-BZ	KY417073	KY423317	KY417025
<i>Hassallia</i> sp. CMT-3SWIN-NPC18	KY417072	KY423316	KY417024
<i>Roholtiella mojaviensis</i> WJT36-NPBG10 str. CCALA1051	KY417088	KY423331	KY417040
<i>Roholtiella mojaviensis</i> WJT36-NPBG5B str. CCALA 1052	KY417087	KY423332	KY417039
<i>Scytonema</i> sp. FM5-MK45	KY417065	KY423309	KY417017
<i>Scytonematopsis</i> sp. M07	KY417067	KY423311	KY417019
<i>Scytonematopsis</i> sp. PNG7-MK64	KY417068	KY423312	KY417020