

Table S3. Hydrochemical data of Lake 21 water and pore water of microbial mat layers.

Sample	pH	Temperature (°C)	Redox potential (mV)
Lake water	7.948	31.7	91.4
Layer 1 ^a	7.708	32	-43
Layer 2 ^a	7.708	32	-43
Layer 3 ^a	7.708	32	-43
Layer 4	6.716	32	-123
Layer 5	6.670	32	-133
Layer 6	6.664	32	-142
Layer 7 ^a	6.661	32	-135
Layer 8 ^a	6.661	32	-135
Layer 9	Not determined	Not determined	Not determined

^avalues derive from pooled porewater