

Supplementary Materials: Effects of Microcystin-LR on Metabolic Functions and Structure Succession of Sediment Bacterial Community under Anaerobic Conditions

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Table S1. The concentrations of MC-LR for different samples with different incubation time (mg/L).

Time / h	Control	G0	G1	G2	G3
0	1.00 ± 0.03	1.00 ± 0.04	1.00 ± 0.02	1.00 ± 0.03	1.00 ± 0.01
12	1.07 ± 0.05	0.89 ± 0.05	0.79 ± 0.03	0.70 ± 0.06	0.65 ± 0.03
24	0.99 ± 0.03	0.87 ± 0.03	0.73 ± 0.03	0.58 ± 0.05	0.51 ± 0.04
36	1.05 ± 0.04	0.85 ± 0.07	0.70 ± 0.07	0.50 ± 0.04	0.37 ± 0.04
48	0.92 ± 0.04	0.74 ± 0.05	0.57 ± 0.04	0.34 ± 0.02	0.22 ± 0.04
60	0.94 ± 0.04	0.74 ± 0.04	0.42 ± 0.06	0.27 ± 0.04	0.14 ± 0.03
72	0.86 ± 0.04	0.66 ± 0.05	0.37 ± 0.04	0.15 ± 0.03	0.08 ± 0.02
84	0.93 ± 0.07	0.54 ± 0.04	0.24 ± 0.02	0.11 ± 0.03	0.04 ± 0.01
96	0.92 ± 0.05	0.48 ± 0.04	0.19 ± 0.06	0.05 ± 0.02	0.00 ± 0.00
108	0.97 ± 0.04	0.36 ± 0.05	0.16 ± 0.05	0.00 ± 0.00	0.00 ± 0.00
120	0.95 ± 0.05	0.26 ± 0.08	0.08 ± 0.03	0.00 ± 0.00	0.00 ± 0.00
132	0.97 ± 0.04	0.21 ± 0.04	0.03 ± 0.02	0.00 ± 0.00	0.00 ± 0.00
144	1.01 ± 0.05	0.18 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
156	0.94 ± 0.05	0.16 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
168	0.95 ± 0.04	0.13 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00

Data are shown as mean values ± standard deviation (SD) ($n = 3$).

Table S2. Utilization of various carbon sources by the sediment bacterial communities in different samples after 168 h of incubation.

Samples	Carbohydrates	Amino Acids	Polymers	Phenolic Compounds	Amines	Carboxylic Acids
G0	0.71 ± 0.04	0.84 ± 0.09	1.03 ± 0.10	0.47 ± 0.07	0.80 ± 0.16	0.66 ± 0.09
G1	0.67 ± 0.07	0.36 ± 0.04*	0.70 ± 0.01	0.28 ± 0.05	0.59 ± 0.04	0.36 ± 0.05
G2	0.37 ± 0.17	0.23 ± 0.13*	0.45 ± 0.22	0.19 ± 0.17	0.34 ± 0.08	0.33 ± 0.06
G3	0.18 ± 0.04	0.30 ± 0.05*	0.39 ± 0.09	0.08 ± 0.07*	0.22 ± 0.02	0.32 ± 0.05

Data are shown as mean values ± SD ($n = 3$), * $p < 0.05$ (sample G0 versus MC-LR treated samples).