Table S2 Effect estimates, 95% confidence intervals, and p values for the main comparisons.

Outcome	Comparison	Mean difference	95% CI of mean difference	Adjusted *p* value
Growth at 48 h (OD_{600})	9.375 μg/mL vs Control	−0.0976	−0.2845 to 0.0893	0.2428
	18.75 μg/mL vs Control	−0.1720	−0.4240 to 0.0800	0.0593
	37.5 μg/mL vs Control	−0.5670	−0.6090 to −0.5250	0.0020
	75 μg/mL vs Control	−0.6886	−0.7361 to −0.6411	0.0013
	150 μg/mL vs Control	−0.8090	−0.8670 to −0.7509	0.0009
	300 μg/mL vs Control	−0.8154	−0.8701 to −0.7606	0.0009
Biofilm biomass (OD_{590})	18.75 μg/mL vs Control	−0.3752	−0.4079 to −0.3424	<0.0001
	37.5 μg/mL vs Control	−0.5760	−0.6088 to −0.5433	<0.0001
	75 μg/mL vs Control	−1.0750	−1.1080 to −1.0420	<0.0001
Swarming diameter (cm)	18.75 μg/mL vs Control	−0.1100	−0.3436 to 0.1236	0.1997
	37.5 μg/mL vs Control	−0.1333	−0.2103 to −0.0563	0.0071
	75 μg/mL vs Control	−0.2833	−0.3603 to −0.2063	0.0004
Swimming diameter (cm)	18.75 μg/mL vs Control	−0.5767	−0.6526 to −0.5008	<0.0001
	37.5 μg/mL vs Control	−0.6467	−0.7226 to −0.5708	<0.0001
	75 μg/mL vs Control	−0.9500	−1.0260 to −0.8741	<0.0001
Serum ALB	M-PTL vs Control	−3.8570	−6.8320 to −0.8826	0.0395
Shannon index	L-PTL vs Control	−1.3850	−2.1157 to −0.6543	0.2241
	M-PTL vs Control	−1.3500	−2.1158 to −0.5842	0.1901
	H-PTL vs Control	−1.7248	−2.4890 to −0.9606	0.0014
Chao1	L-PTL vs Control	−72.6900	−140.4200 to −5.0400	0.1876
	M-PTL vs Control	−11.8600	−83.4000 to 59.6000	>0.9999
	H-PTL vs Control	25.6900	−65.5300 to 116.9300	>0.9999
	L-PTL vs H-PTL	−98.4300	−167.0100 to −29.8500	0.0178
Bacteroidetes	L-PTL vs Control	−0.0349	−0.1852 to 0.1154	>0.9999
	M-PTL vs Control	−0.0995	−0.2192 to 0.0202	>0.9999
	H-PTL vs Control	−0.1613	−0.2705 to −0.0521	0.0140
Fusobacteria	L-PTL vs Control	0.5297	0.2213 to 0.8381	0.2255
	M-PTL vs Control	0.5085	0.1989 to 0.8181	0.8249
	H-PTL vs Control	0.6518	0.3421 to 0.9615	0.0022
Cyanobacteria	L-PTL vs Control	−0.2146	−0.4122 to −0.0170	0.0022
	M-PTL vs Control	−0.2144	−0.4121 to −0.0169	0.2688
	H-PTL vs Control	−0.2134	−0.4110 to −0.0158	0.7117
Cetobacterium	L-PTL vs Control	0.5329	0.2224 to 0.8434	0.2255
	M-PTL vs Control	0.5116	0.1998 to 0.8234	0.8249
	H-PTL vs Control	0.6548	0.3429 to 0.9667	0.0022
Bacteroides	L-PTL vs H-PTL	0.1155	0.0133 to 0.2178	0.0451
Mortality (percentage points)	L-PTL vs Control	−8.3400	−17.2400 to 0.5572	0.0663
	M-PTL vs Control	−13.8900	−22.7900 to −4.9960	0.0046
	H-PTL vs Control	−2.7800	−11.6800 to 6.1170	0.7535
	M-PTL vs H-PTL	−11.1100	−20.0100 to −2.2160	0.0167

Note: Mean differences were calculated as the first group minus the second group in each comparison; negative values indicate a lower value in the first group. *p* values were adjusted for multiple comparisons according to the post hoc test used for each analysis. For nonparametric comparisons, adjusted *p* values were obtained using Dunn's post hoc test, whereas effect estimates and 95% CIs were reported on the original measurement scale. Bacteroidetes, Fusobacteria, Cyanobacteria, Cetobacterium, and Bacteroides refer to their respective relative abundances. CI, confidence interval.