

Table S1. Colorimetric yield of the assays for measuring biofilm metabolic activity using different combinations of redox potential indicators and electron carriers. Biofilms of *P. alcaliphila* 34 grown on the pegs of Calgary Device in LB medium for 24 hours were transferred in a new microplate containing LB added with different couples of redox potential indicators and electron carriers. The biofilms were incubated at 30°C into the Omnilog instrument for 5 hours.

Redox potential indicator	Electron Carriers												
	MD in acetone		MD in ethanol		MD in DMSO		MSB in H ₂ O		PES in H ₂ O		PMS in H ₂ O		
	10 μM	100 μM	10 μM	100 μM	10 μM	100 μM	10 μM	100 μM	10 μM	100 μM	10 μM	100 μM	
Dye A	28.5 ± 2.6*	26.7 ± 4.3	10.5 ± 3.1	2.5 ± 1.0	0.5 ± 0.6	10.5 ± 3.1	10.0 ± 1.8	25.0 ± 5.3	19.7 ± 4.6	0.2 ± 0.5	13.5 ± 8.8	40.2 ± 13.4	36.2 ± 8.8
Dye D	20.5 ± 2.4	34.0 ± 2.4	40.7 ± 8.6	19.2 ± 10.0	6.7 ± 1.0	32.7 ± 9.3	54.7 ± 9.1	63.7 ± 6.6	82.2 ± 5.4	9.5 ± 4.6	49.0 ± 5.3	89.2 ± 9.4	110.7 ± 22.0
Dye E	34.7 ± 1.2	42.5 ± 4.6	49.5 ± 8.5	15.5 ± 7.1	4.2 ± 4.0	23.0 ± 10.4	57.2 ± 10.0	66.7 ± 5.0	78.7 ± 5.0	14.0 ± 4.1	45.7 ± 5.9	77.0 ± 10.5	119.5 ± 13.3
Dye F	9.5 ± 3.7	12.5 ± 4.4	28.5 ± 4.4	8.2 ± 4.8	0.2 ± 0.5	14.0 ± 3.5	49.5 ± 20.7	19.0 ± 0.8	66.7 ± 4.0	10.2 ± 13.7	59.2 ± 20.1	43.2 ± 6.9	100.2 ± 19.1
Dye G	14.7 ± 2.9	38.2 ± 1.9	41.7 ± 5.8	14.2 ± 7.8	3.5 ± 1.0	34.0 ± 5.0	36.5 ± 9.7	32.0 ± 3.3	65.0 ± 6.3	37.2 ± 20.4	57.7 ± 16.6	59.0 ± 5.5	88.5 ± 27.4
Dye H	6.0 ± 1.4	13.5 ± 9.3	42.5 ± 5.5	5.0 ± 1.1	0.0 ± 0.0	8.7 ± 0.9	29.7 ± 15.1	14.2 ± 2.7	52.5 ± 3.7	24.0 ± 4.1	69.2 ± 11.5	23.5 ± 7.0	60.5 ± 37.5

* Data are expressed as Omilog Arbitrary Units (OAU) recorded after 5 hours of incubation and represent the average value ± standard deviation (n=4).

