

Table S2. Metabolic susceptibility of biofilm and planktonic culture of *P. alcaliphila* 34 to toxic compounds.

Toxic compound	Compound specie	Concentration	% Biofilm activity	% Planktonic culture activity
		(mg/ml)	(*)	(**)
Carbenicillin	Antibiotic Pennicillin	1	27.4 ± 7.0 (a)	35.9 ± 15.5 (b)
		0.5	25.1 ± 7.0 (a)	20.1 ± 13.9 (b)
		0.25	14.6 ± 2.0 (a)	30.9 ± 18.4 (b)
		0.125	14.8 ± 5.8 (a)	33.9 ± 19.1 (b)
Oxacillin	Antibiotic Pennicillin	1.5 (d)	23.5 ± 1.5 (a)	10.4 ± 0.3 (b)
		0.75	32.5 ± 10.6 (a)	13.4 ± 3.5 (b)
		0.375	47.0 ± 14.1	47.1 ± 29.3
		0.188	56.1 ± 3.2	57.6 ± 1.3 (b)
Penicillin G	Antibiotic Pennicillin	0.234	29.3 ± 3.0 (a)	22.0 ± 18.2 (b)
		0.117	33.4 ± 10.1 (a)	14.6 ± 6.2 (b)
		0.059	31.2 ± 8.8 (a)	10.8 ± 0.9 (b)
		0.029	43.6 ± 5.1 (a)	21.1 ± 15.6 (b)
Gentamycin	Antibiotic Aminoglicoside	0.003	20.6 ± 0.8 (a)	25.1 ± 3.6 (b)
		0.0015 (c)	29.3 ± 3.1 (a)	59.3 ± 7.2 (b)
		0.00075 (c)	54.3 ± 12.2 (a)	102.4 ± 5.4
		0.000375 (c)	66.7 ± 5.3 (a)	117.0± 0.6
Streptomycin	Antibiotic Aminoglycoside	0.03 (c)	13.0 ± 1.2 (a)	19.0 ± 0.9 (b)
		0.015 (c)	16.0 ± 3.2 (a)	44.4 ± 3.5 (b)
		0.0075 (c)	32.6 ± 10.2 (a)	108.0 ± 6.4 (b)
		0.00375 (c)	57.3 ± 6.7 (a)	117.4 ± 1.1 (b)
Kanamycin	Antibiotic Aminoglycoside	1.88	15.5 ± 2.1 (a)	15.1 ± 0.6 (b)
		0.94	13.0 ± 2.3 (a)	13.3 ± 0.7 (b)
		0.47	10.3 ± 0.8 (a)	14.5 ± 2.2 (b)
		0.23	9.9 ± 2.5 (a)	13.8 ± 1.0 (b)
Cephalothin	Antibiotic Cephalosporin	1	24.5 ± 2.4 (a)	19.2 ± 12.9 (b)
		0.5	21.1 ± 3.8 (a)	32.8 ± 18.5 (b)
		0.25	20.0 ± 4.3 (a)	49.7 ± 13.7 (b)
		0.125 (c)	40.2 ± 1.1	89.4 ± 2.2 (b)
Doxycycline	Antibiotic Tetracyclin	0.006 (c)	0.0 ± 0.0 (a)	44.8 ± 8.9 (b)
		0.003 (c)	5.6 ± 4.4 (a)	61.7 ± 8.1 (b)
		0.002 (c)	30.7 ± 8.0 (a)	85.0 ± 4.7
		0.001	79.4 ± 11.3	94.8 ± 2.3
Polymixin B	Antibiotic	0.005 (d)	13.9 ± 0.9 (a)	10.8 ± 0.4 (b)
		0.002 (d)	17.3 ± 0.9 (a)	9.8 ± 0.3 (b)
		0.0012 (d)	101.0 ± 20.2	40.6 ± 4.6 (b)
		0.0006 (d)	131.0 ± 7.7	81.1 ± 3.0 (b)
Protamine	Antimicrobial peptide	0.6 (d)	13.0 ± 1.4 (a)	16.3 ± 0.7 (b)
		0.3 (c)	88.2 ± 17.7	24.6 ± 5.2 (b)
		0.15 (c)	100.2 ± 5.8	77.0 ± 10.8
		0.075	89.5 ± 17.4	98.0 ± 1.1
Benzalkonium chloride	Disinfectant	0.0025 (c)	8.1 ± 0.5 (a)	10.3 ± 0.5 (b)
		0.0012 (c)	7.9 ± 1.9 (a)	30.9 ± 2.9 (b)
		0.0006 (c)	20.2 ± 16.4	69.1 ± 5.9 (b)
		0.0003	81.3 ± 14.4	98.3 ± 1.0

Toxic compound	Compound specie	Concentration	% Biofilm activity	% Planktonic culture activity
		(mM)	(*)	(**)
EDTA	chelating agent	5 (c)	15.4 ± 1.7 (a)	49.3 ± 4.3 (b)
		2.5	53.0 ± 11.1	71.4 ± 16.4
		1.25	73.4 ± 14.0	97.6 ± 5.1
		0.0625	78.7 ± 4.7	100.5 ± 0.9
MSB	oxidizing agent	150 (c)	9.1 ± 2.0 (a)	16.0 ± 0.5 (b)
		75	9.5 ± 3.6 (a)	11.1 ± 0.9 (b)
		37.5	9.4 ± 2.7 (a)	14.0 ± 1.4 (b)
		18.7	12.5 ± 4.5 (a)	28.5 ± 6.7 (b)
VOCl ₂	toxic metal cationic	3	8.1 ± 0.4 (a)	20.2 ± 14.1(b)
		1.5 (c)	10.8 ± 8.2 (a)	96.8 ± 4.8
		0.75	105.0 ± 10.0	99.1 ± 0.1
		0.375	91.7 ± 2.6	95.5 ± 3.2
MnSO ₄	toxic metal cationic	27 (c)	9.1 ± 0.7 (a)	13.4 ± 0.2 (b)
		13.5	12.0 ± 0.5 (a)	13.0 ± 0.3 (b)
		6.75	22.4 ± 8.0 (a)	14.2 ± 1.5 (b)
		3.375	100.7 ± 6.2	96.6 ± 1.2
AlK(SO ₄) ₂	toxic metal cationic	0.939 (c)	6.5 ± 1.6 (a)	21.8 ± 0.7 (b)
		0.470 (c)	8.1 ± 0.9 (a)	21.4 ± 2.7 (b)
		0.253 (c)	8.8 ± 1.6 (a)	20.0 ± 1.5 (b)
		0.117	32.7 ± 7.3 (a)	32.2 ± 9.4 (b)
CdSO ₄	toxic metal cationic	0.234 (c)	8.3 ± 0.4 (a)	64.0 ± 1.8 (b)
		0.117 (c)	52.1 ± 8.2 (a)	72.2 ± 1.3 (b)
		0.059 (c)	51.2 ± 2.4 (a)	86.1 ± 2.4 (b)
		0.029 (c)	50.0 ± 10.4 (a)	84.4 ± 3.0 (b)
CoCl ₂	toxic metal cationic	0.6 (c)	9.6 ± 0.7 (a)	28.5 ± 4.7 (b)
		0.3 (c)	10.6 ± 2.4 (a)	35.5 ± 3.4 (b)
		0.15	16.5 ± 6.2 (a)	33.4 ± 9.3 (b)
		0.075 (c)	28.6 ± 10.4 (a)	66.3 ± 2.5 (b)
NiCl ₂	toxic metal cationic	0.9 (c)	26.8 ± 7.7 (a)	51.6 ± 3.7 (b)
		0.45 (c)	42.2 ± 7.0 (a)	79.2 ± 0.2 (b)
		0.225 (c)	76.0 ± 4.7 (a)	88.0 ± 0.8 (b)
		0.113	103.8 ± 11.0	99.7 ± 0.7
CuCl ₂	toxic metal cationic	2.4 (c)	5.0 ± 0.1 (a)	10.4 ± 0.3 (b)
		1.2 (c)	2.9 ± 1.7 (a)	10.4 ± 0.7 (b)
		0.6 (c)	2.1 ± 2.5 (a)	24.9 ± 5.4 (b)
		0.3	53.1 ± 39.7	86.7 ± 0.7 (b)
ZnCl ₂	toxic metal cationic	1.9 (c)	2.3 ± 0.3 (a)	11.9 ± 0.1 (b)
		0.959 (c)	3.5 ± 0.7 (a)	12.7 ± 0.6 (b)
		0.475 (c)	5.4 ± 0.7 (a)	43.9 ± 5.9 (b)
		0.238 (c)	57.9 ± 3.4	77.2 ± 4.3 (b)
K ₂ CrO ₄	toxic metal anionic	100 (d)	18.4 ± 1.2 (a)	15.8 ± 0.7 (b)
		50 (d)	65.1 ± 3.8 (a)	34.7 ± 2.0 (b)
		25	65.8 ± 1.9 (a)	72.5 ± 5.8 (b)
		12.5 (c)	50.6 ± 2.1 (a)	62.0 ± 3.5 (b)

(*) For each toxic compound concentration biofilm activity was calculated compared to the untreated condition (absence of the toxic compound); (**) For each toxic compound concentration planktonic culture activity was calculated compared to the untreated condition (absence of the toxic compound). **(a)** Treatment inducing a significant decrease of per cent metabolic activity compared to the untreated condition (absence of toxics) in biofilm; (two-way ANOVA followed by Bonferroni *post-hoc* test T, $P < 0.05$); **(b)** Treatment inducing a significant decrease of per cent metabolic activity compared to the untreated condition (absence of toxics) in planktonic culture (two-way ANOVA followed by Bonferroni *post-hoc* test T, $P < 0.05$); **(c)** Treatment for which per cent metabolic activity of planktonic culture is higher than metabolic activity of biofilm (two-way ANOVA followed by Bonferroni *post-hoc* test T, $P < 0.05$), **(d)** Treatment for which per cent metabolic activity of biofilm is higher than metabolic activity of planktonic culture (two way ANOVA followed by Bonferroni *post-hoc* test T, $P < 0.05$).