

SUPPORTING INFORMATION

Ecotoxicity & Hemolytic Activity of Fluorinated Ionic Liquids

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Table S1. MIC value of different FILs against *Pseudomonas stutzeri* in μM .

FIL	MIC (μM)
[C ₂ C ₁ Im][CF ₃ SO ₃]	400,000
[C ₈ C ₁ Im][CF ₃ SO ₃]	10,000
[C ₂ C ₁ Im][C ₄ F ₉ CO ₂]	300,000
[C ₂ C ₁ Im][C ₄ F ₉ SO ₃]	200,000
[C ₈ C ₁ Im][C ₄ F ₉ SO ₃]	>2 930 ¹
[C ₂ C ₁ py][C ₄ F ₉ CO ₂]	200,000
[C ₂ C ₁ py][C ₄ F ₉ SO ₃]	100,000
[N ₁₁₁₂ (OH)][C ₄ F ₉ CO ₂]	400,000
[N ₁₁₁₂ (OH)][C ₄ F ₉ SO ₃]	300,000

¹Maximum tested concentration.

Table S2. Hemolysis (%) as function of concentration determined for several FILs.

[C ₈ C ₁ Im][CF ₃ SO ₃]					
μM	54,787	27,393	13,697	6 848	3 424
Hemolysis (%)	90.1±7.05	69.3±7.91	3.15±1.29	0.109±0.000	0.061±0.016
[C ₂ C ₁ Im][C ₄ F ₉ CO ₂]					
μM	266,092	133,046	66,523	33,261	16,631
Hemolysis (%)	91.7±3.07	81.4±5.48	0.120±0.040	0.184±0.092	0.000±0.000
[C ₂ C ₁ Im][C ₄ F ₉ SO ₃]					
μM	121,745	60,872	30,436	15,218	7 609
Hemolysis (%)	65.7±4.93	57.4±1.47	3.23±0.418	0.109±0.052	0.109±0.032
[C ₈ C ₁ Im][C ₄ F ₉ SO ₃]					
μM	2 648	1 324	663	332	166
Hemolysis (%)	4.52±1.43	0.000±0.000	0.254±0.048	0.000±0.000	0.045±0.000
[C ₂ C ₁ py][C ₄ F ₉ CO ₂]					
μM	252,705	126,352	63,176	31,588	15,794
Hemolysis (%)	81.1±1.26	67.8±9.37	0.447±0.087	0.318±0.048	0.000±0.000
[C ₂ C ₁ py][C ₄ F ₉ SO ₃]					
μM	57,101	28,550	14,275	7 138	3 569
Hemolysis (%)	54.1±1.92	0.806±0.248	0.045±0.000	0.000±0.000	0.000±0.000
[N ₁₁₁₂ (OH)][C ₄ F ₉ CO ₂]					
μM	68,088	34,044	17,022	8 511	4 256
Hemolysis (%)	82.5±2.50	88.6±1.89	56.1±10.2	3.60±0.048	0.045±0.032
[N ₁₁₁₂ (OH)][C ₄ F ₉ SO ₃]					
μM	153,231	76,615	38,308	19,154	9 577
Hemolysis (%)	92.4±0.064	102±1.59	38.3±3.31	0.270±0.164	0.238±0.032

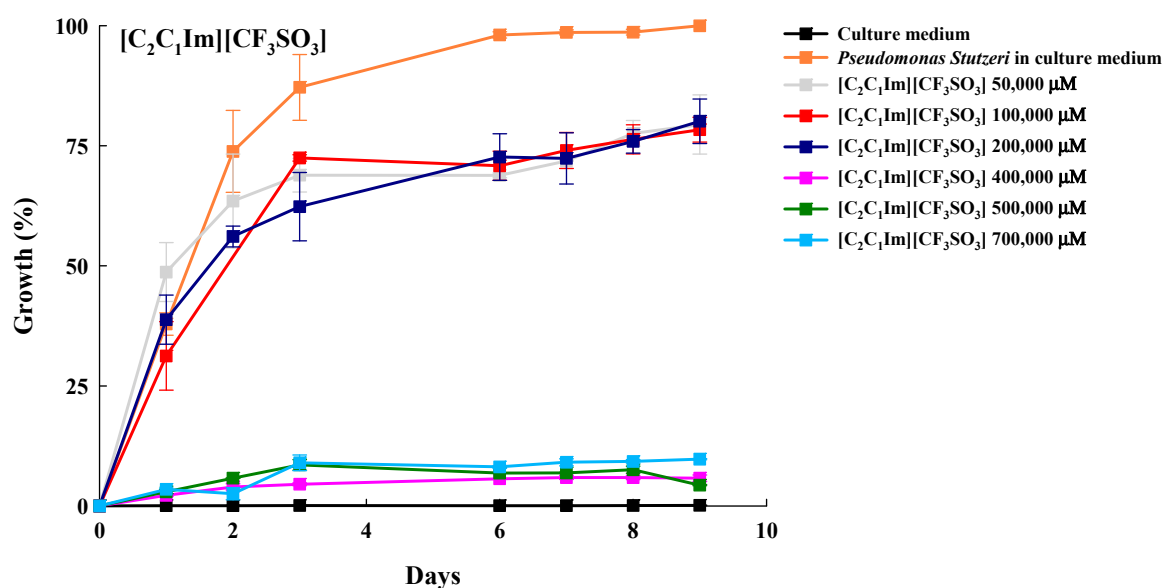


Figure S1. *Pseudomonas stutzeri* growth curves for different concentrations of 1-ethyl-3-methylimidazolium perfluoromethanesulfonate [C₂C₁Im][CF₃SO₃].

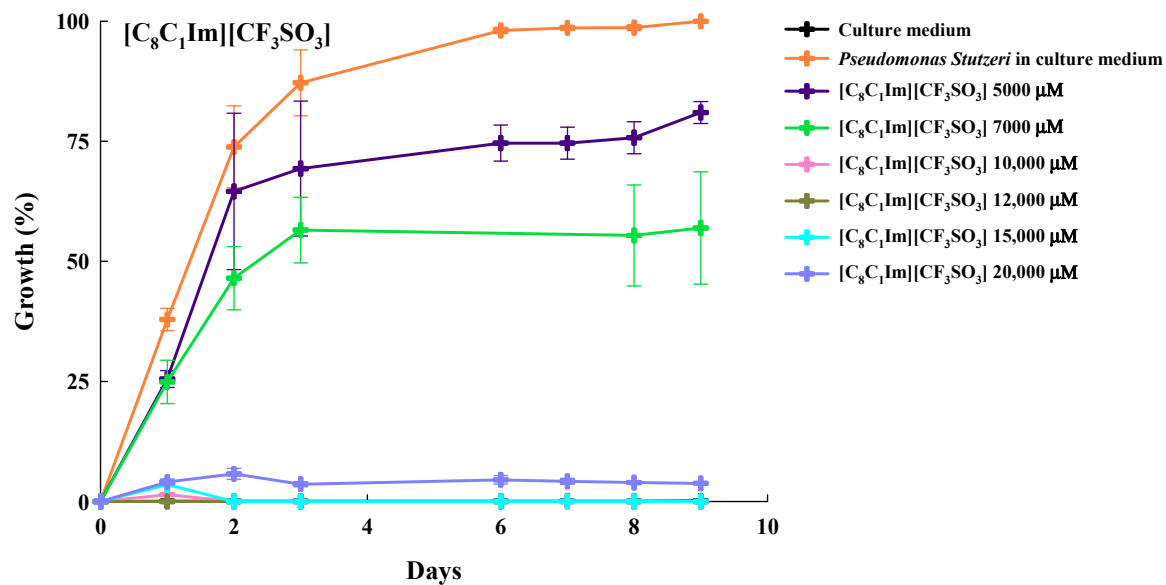


Figure S2. *Pseudomonas stutzeri* growth curves for different concentrations of 1-methyl-3-octylimidazolium perfluoromethanesulfonate [C₈C₁Im][CF₃SO₃].

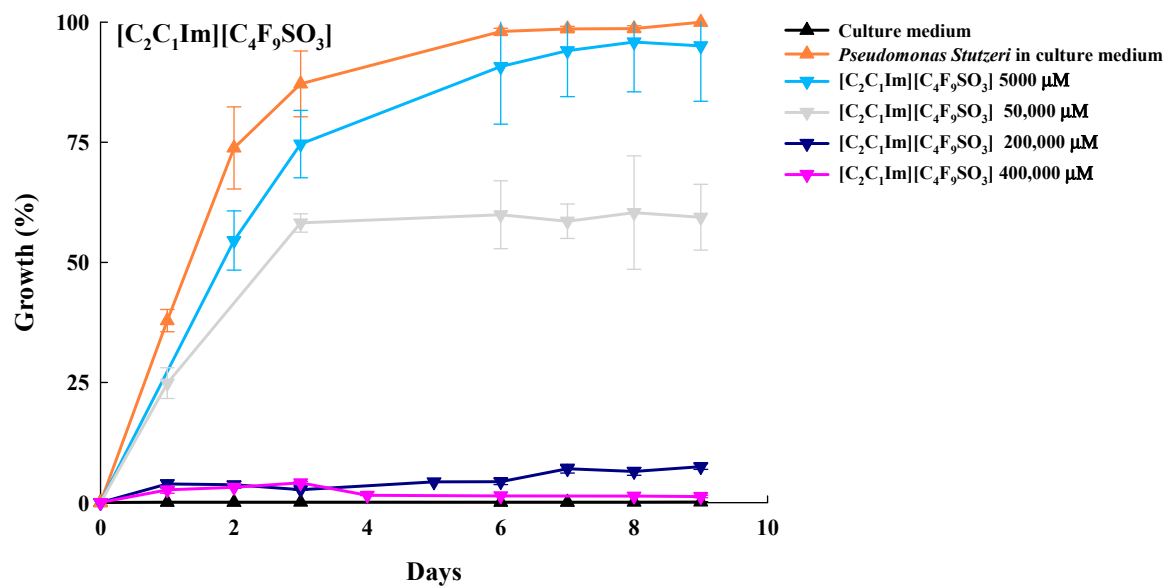


Figure S3. *Pseudomonas stutzeri* growth curves for different concentrations of 1-ethyl-3-methylimidazolium perfluorobutanesulfonate [C₂C₁Im][C₄F₉SO₃].

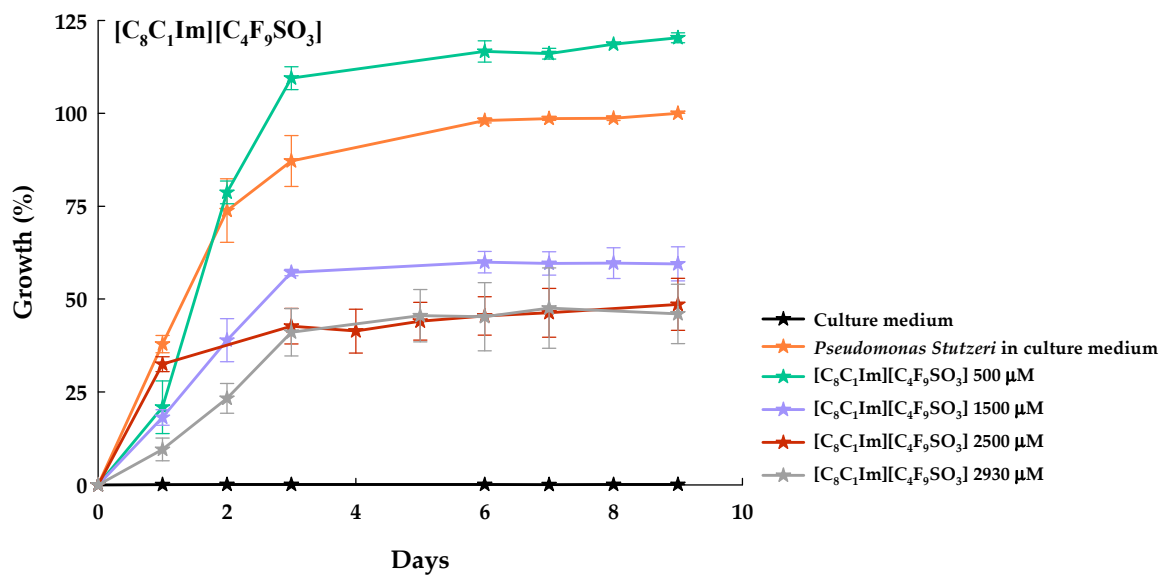


Figure S4. *Pseudomonas stutzeri* growth curves for different concentrations of 1-methyl-3-octylimidazolium perfluorobutanesulfonate [C₈C₁Im][C₄F₉SO₃].