

Supplementary 1

Parameters of the MOPS simulation with glycerol and acetate.

Name	<i>P. aeruginosa</i> - Glycerol	<i>P. aeruginosa</i> - Acetate
Cell parameters		
Scale	500	500
Amount at t=0 (counts)	43	4
R (μm)	0.48	0.48
Mass (pg)	1.55	1.55
Length (μm)	1.95	1.95
Eat radius (Bacterial length×)	4	4
Speed (μm/h)	8000	8000
Search radius (μm)	3500	3500
Survival time (min)	1440	1440
Metabolite parameters		
Amount (g/L)	2.76	2.4
Mass (pg)	92	60
Speed (μm/h)	8000	8000
Uptake Upper Bound (mmol/gDCW h)	9.2 or 1000	30.4 or 1000
General parameters		

Time Limit (min)	720	720
Time step (min)	2	2
Environment Length (μm)	1000	1000
Environment Width (μm)	400	400
Environment Depth (μm)	400	400
Metabolite Scale	5 x 10 ¹⁰	5 x 10 ¹⁰