

Table S1. Abundance of OTUs that contribute most to community dissimilarity

OTU No.	Taxa	<i>A. protothecoides</i> ³			<i>C. sorokiniana</i>			Legend
		Original MC ¹	Adapted MC ²	Adapted MC + algae	Original MC	Adapted MC	Adapted MC + algae	
OTU 1	<i>Pseudomonas</i>	-	23.4 a ⁴	4.1 b	-	17.9 a	0.1 b	<1
OTU 2	Comamonadaceae (FA)	2.6 b	6.0 a	1.5 b	2.0 a	4.0 a	1.7 a	<5
OTU 3	Cryomorphaceae (FA)	1.2 b	7.9 a	6.2 a	0.9 c	9.5 b	13.1 a	<10
OTU 4	<i>Acinetobacter</i>	-	6.7 a	4.2 a	-	4.8 a	0.8 b	>10
OTU 5	Cytophagaceae (FA)	4.4 a	3.9 a	0.7 a	3.2 ab	5.3 a	2.1 b	
OTU 6	<i>Phenylobacterium</i>	1.7 a	3.7 a	0.6 a	1.7 b	6.3 ab	12.0 a	
OTU 7	<i>Sediminibacterium</i>	-	0.1 b	4.8 a	-	<0.1 b	0.2 a	
OTU 8	<i>Devosia</i>	<0.1 b	0.3 b	4.7 a	0.1 c	0.3 b	0.8 a	
OTU 9	<i>Phenylobacterium</i>	0.6 b	3.3 a	1.5 ab	0.7 b	4.6 a	3.3 ab	
OTU 10	<i>Pseudomonas</i>	-	3.0 a	0.9 a	-	2.0 a	0.1 a	
OTU 11	Porphyromonadaceae (FA)	10.4 a	0.1 b	<0.1 b	9.0 a	0.2 b	0.1 b	
OTU 12	<i>Anaeromusa</i>	6.5 a	<0.1 b	-	6.2 a	-	<0.1 b	
OTU 13	<i>Flavobacterium</i>	6.4 a	0.2 b	0.2 b	5.0 a	0.3 b	0.4 b	
OTU 14	<i>Veillonella</i>	3.8 a	0.1 b	<0.1 b	3.7 a	0.1 b	0.1 b	
OTU 15	Clostridiales (OR)	2.7 a	0.4 b	0.1 b	3.4 a	0.5 b	0.1 b	
OTU 16	BD7-3 (OR)	<0.1 b	0.8 b	4.4 a	<0.1 a	0.3 a	0.3 a	
OTU 17	<i>vadinHB04</i>	2.5 a	0.1 b	<0.1 b	2.6 a	0.2 b	0.1 b	
OTU 18	BD7-3 (OR)	<0.1 b	0.4 ab	0.8 a	-	0.6 b	7.2 a	
OTU 19	<i>Luteolibacter</i>	-	<0.1 b	0.2 a	<0.1 a	<0.1 a	4.4 a	
OTU 20	<i>Prostheco bacter debontii</i>	<0.1 a	1.6 a	0.4 a	<0.1 a	1.4 a	3.3 a	
Percent of community		42.9	62.0	35.5	38.6	58.3	50.3	

¹Original community refers to microorganisms present in the wastewater prior to cultivation in aerated bioreactors.

²Adapted community refers to microorganisms present after 4-5 days of culture in aerated bioreactors without algae.

³The algae strain was only added to one set of bioreactors but all bioreactors under this heading were part of the same batch.

⁴Within an algae species, values with the same letter in the same row are not statistically different at the 0.05 level based on n=3 replicates