

**Supplemental Table T2.** Illumina 16S rRNA sequence data for the cultures showing the relative contribution (in %) of all taxa identified. Only taxa representing at least 0.1% of the Illumina sequence data are shown.

Phylum	Class	Order	C4HH	C6HC	T4OC	T4HH	T4HC	T6OC	T6HM	T6HC	V4OC	V4HH	V4HC	V6OM	V6OC	V6HC
Acidobacteria																
	Acidobacteria															
		Acidobacteriales	0.1	0.0	0.0	0.5	0.2	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Actinobacteria																
	Actinobacteria															
		Actinomycetales	<b>4.7</b>	0.5	0.0	1.6	0.0	0.3	0.5	0.2	3.6	<b>14.0</b>	3.8	0.3	<b>15.5</b>	3.1
		OPB41	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Bacteroidetes																
	Bacteroidia															
		Bacteroidales	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1
	[Saprospirae]															
		[Saprospirales]	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Firmicutes																
	Bacilli															
		Bacillales	<b>62.9</b>	4.7	0.4	6.8	0.4	8.7	2.3	0.3	10.2	<b>51.4</b>	<b>35.3</b>	1.0	6.2	<b>15.0</b>
		Lactobacillales	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Clostridia															
		Clostridiales	1.5	<b>92.6</b>	<b>98.1</b>	<b>56.9</b>	<b>83.8</b>	<b>86.2</b>	0.8	<b>89.3</b>	<b>78.8</b>	<b>29.3</b>	<b>59.5</b>	<b>94.8</b>	<b>76.9</b>	<b>80.2</b>
		Natranaerobiales	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
Proteobacteria																
	Alphaproteobacteria															
		Caulobacteriales	1.2	0.0	0.0	3.5	0.5	0.9	3.1	0.1	0.2	0.5	0.0	0.0	0.0	0.2
		Rhizobiales	4.1	0.0	0.1	9.5	0.3	0.6	4.6	0.9	0.2	1.3	0.0	0.0	0.0	0.2
		Rhodobacteriales	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Rhodospirillales	0.2	0.0	0.1	1.7	0.1	0.2	<b>11.4</b>	1.9	0.5	0.4	0.0	0.2	0.0	0.4
		Rickettsiales	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
	Betaproteobacteria															
		Burkholderiales	<b>23.3</b>	0.0	0.5	6.5	1.4	0.7	2.2	1.6	3.7	1.5	0.0	0.7	0.7	0.1
		Neisseriales	0.0	0.0	0.5	0.2	0.5	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
		Nitrosomonadales	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
		Rhodocyclales	0.0	1.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Deltaproteobacteria															
		Desulfuromonadales	0.0	0.5	0.0	<b>5.7</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.3
		Myxococcales	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.7	0.0	0.0	0.0	0.1
	Gammaproteobacteria															
		Enterobacteriales	0.7	0.1	0.2	0.4	<b>10.0</b>	0.0	<b>63.7</b>	3.1	0.0	0.0	0.1	0.0	0.0	0.0
		Pseudomonadales	0.2	0.1	0.0	1.1	2.4	0.1	6.1	0.6	0.1	0.1	0.0	0.0	0.0	0.1
		Xanthomonadales	0.2	0.0	0.0	1.2	0.0	0.0	0.2	0.1	0.2	0.2	0.0	0.0	0.0	0.1