

S3 Table. Measured accumulated CH₄ (μmol) at different incubation times (days).

Experiment conditions	days of incubation											
	1	8	16	28	35	41	68	105	119	128	148	168
MAB1 0.2μM	0.10 ± 0.05	41.9 ± 4.21	35.5 ± 2.39	32.8 ± 16.5	31.6 ± 13.4	36.8 ± 2.45	31.5 ± 4.94	99.9 ± 10.2	102 ± 7.27	103 ± 6.01	99.7 ± 2.41	95.1 ± 2.23
M. Bryantii 0.2μM	0.21 ± 0.05	12.3 ± 1.65	32.3 ± 3.63	29.1 ± 6.40	32.8 ± 2.20	33.9 ± 2.20	37.1 ± 6.07	106 ± 4.27	100 ± 1.44	99.2 ± 0.41	98.2 ± 2.65	94.0 ± 3.30
M. Barkeri 0.2μM	0.16 ± 0.13	8.15 ± 5.15	21.7 ± 0.89	37.0 ± 6.63	38.0 ± 0.98	38.5 ± 0.37	35.4 ± 5.80	101 ± 10.9	104 ± 7.83	107 ± 5.27	110 ± 4.29	104 ± 3.86
MAB1-Ni	0.08 ± 0.00	16.0 ± 4.64	38.9 ± 4.76	33.2 ± 12.7	38.5 ± 4.92	38.0 ± 4.97	33.1 ± 6.01	108 ± 8.54	105 ± 8.10	105 ± 8.08	103 ± 9.70	100 ± 4.91
MAB1 4.21μM	0.08 ± 0.00	19.7 ± 12.7	39.2 ± 3.06	42.6 ± 6.80	31.9 ± 10.4	36.9 ± 2.88	36.2 ± 11.0	105 ± 5.06	103 ± 3.03	104 ± 1.35	100 ± 1.75	99.3 ± 1.83
M. Barkeri- Ni	0.08 ± 0.00	4.06 ± 0.81	11.0 ± 0.39	36.3 ± 15.3	19.4 ± 2.39	21.6 ± 2.80	34.2 ± 7.60	54.0 ± 9.46	65.2 ± 8.26	64.6 ± 13.7	75.5 ± 3.38	77.7 ± 5.33
M. Barkeri 4.21μM	0.08 ± 0.00	5.16 ± 0.24	12.1 ± 0.81	31.2 ± 11.8	19.2 ± 7.19	26.0 ± 2.90	32.2 ± 7.34	68.5 ± 9.47	82.6 ± 9.62	82.9 ± 8.71	87.8 ± 8.68	89.6 ± 5.94
M. Bryantii- Ni	0.17 ± 0.17	11.0 ± 2.92	30.1 ± 5.91	29.9 ± 9.46	36.8 ± 9.94	37.2 ± 6.94	37.8 ± 7.47	92.8 ± 11.7	99.4 ± 12.7	101 ± 13.5	99.4 ± 11.0	97.6 ± 12.5
M. Bryantii 4.21μM	0.08 ± 0.00	13.5 ± 0.76	35.5 ± 1.63	19.5 ± 3.41	37.6 ± 6.70	35.4 ± 3.26	31.7 ± 2.69	95.8 ± 5.14	101 ± 5.65	103 ± 8.00	103 ± 8.13	96.3 ± 6.63