

**Table 1. Growth, Uptake, and Production Rates of Seven *E. coli* Strains in Aerobic and Anaerobic Batch Culture**

Specific Rate (mmol gDW <sup>-1</sup> h <sup>-1</sup> )	Condition	Strain						
		BL21	C	Crooks	DH5 $\alpha$	MG1655	W	W3110
$\mu_{\max}$ (h <sup>-1</sup> )	Aerobic	0.76 ± 0.02	0.83 ± 0.02	0.96 ± 0.02	0.77 ± 0.01	0.73 ± 0.01	0.97 ± 0.02	0.61 ± 0.01
	Anaerobic	0.29 ± 0.05	0.61 ± 0.02	0.77 ± 0.04	0.18 ± 0.02	0.46 ± 0.02	0.90 ± 0.06	0.52 ± 0.00
Glucose	Aerobic	-8.01 ± 0.27	-9.86 ± 0.09	-12.47 ± 0.53	-9.67 ± 0.35	-9.53 ± 0.27	-9.90 ± 0.1	-6.65 ± 0.08
	Anaerobic	-11.32 ± 0.51	-22.20 ± 0.75	-30.88 ± 2.19	-8.48 ± 1.72	-16.69 ± 0.24	-27.21 ± 1.39	-17.49 ± 0.45
Acetate	Aerobic	0.00 ± 0.00	3.35 ± 0.06	0.00 ± 0.00	3.12 ± 0.13	3.49 ± 0.50	0.00 ± 0.00	2.95 ± 0.12
	Anaerobic	8.83 ± 0.91	16.33 ± 0.38	19.09 ± 1.27	7.34 ± 0.37	11.71 ± 1.14	21.06 ± 0.75	10.59 ± 0.12
Formate	Aerobic	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.21	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
	Anaerobic	20.06 ± 0.89	33.85 ± 0.71	34.82 ± 2.45	14.51 ± 2.59	22.17 ± 1.69	40.03 ± 1.05	19.86 ± 0.18
Ethanol	Aerobic	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
	Anaerobic	10.51 ± 1.27	16.33 ± 0.38	19.09 ± 1.27	7.85 ± 0.87	11.22 ± 0.60	16.32 ± 2.98	7.85 ± 0.87
Lactate	Aerobic	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.19 ± 0.06	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
	Anaerobic	1.75 ± 0.53	0.00 ± 0.00	0.00 ± 0.00	2.05 ± 0.14	0.00 ± 0.00	21.06 ± 0.75	0.00 ± 0.00
Succinate	Aerobic	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
	Anaerobic	0.71 ± 0.2	2.90 ± 0.05	3.82 ± 0.27	1.00 ± 0.30	1.86 ± 0.40	3.08 ± 0.03	1.61 ± 0.07

Means ± SD are shown (n = 3). Means were compared by Tukey-Kramer HSD ( $\alpha_{0.05}$ ).