

Table 6 Comparison of experimental and *in silico* net specific growth rates (h⁻¹).

	Aerobic			Anaerobic		
	μ_{exp}	$\mu_{in\ silico}^a$	$\mu_{in\ silico}^b$	μ_{exp}	$\mu_{in\ silico}^a$	$\mu_{in\ silico}^b$
<i>E. coli</i> MG1655	0.56 ± 0.03	0.74 ± 0.00	0.82 ± 0.05	0.39 ± 0.01	0.52 ± 0.00	0.19 ± 0.00
<i>E. coli</i> W3110	0.54 ± 0.01	0.74 ± 0.00	0.82 ± 0.00	0.33 ± 0.01	0.52 ± 0.00	0.19 ± 0.00
<i>E. coli</i> EDL933	0.79 ± 0.08	0.74 ± 0.00	0.63 ± 0.00	0.56 ± 0.04	0.53 ± 0.00	0.56 ± 0.01
<i>E. coli</i> Sakai	0.80 ± 0.01	0.74 ± 0.00	0.63 ± 0.00	0.68 ± 0.01	0.53 ± 0.00	0.56 ± 0.00
<i>E. coli</i> CFT073	0.76 ± 0.01	0.71 ± 0.00	0.60 ± 0.00	0.40 ± 0.01	0.45 ± 0.00	0.42 ± 0.00
<i>E. coli</i> UT189	0.55 ± 0.02	0.72 ± 0.01	0.61 ± 0.01	0.64 ± 0.01	0.45 ± 0.01	0.42 ± 0.01
<i>E. coli</i> core	-	0.71	0.71	-	0.45	0.37
<i>E. coli</i> pangenome	-	0.74	0.73	-	0.53	0.42
<i>S. typhimurium</i> LT2	0.86 ± 0.05	0.73 ± 0.00	-	0.54 ± 0.01	0.44 ± 0.00	-

^aMaximum oxygen uptake rates (15 mmol/gDW/h) and glucose uptake rates for aerobic (10 mmol/gDW/h) and anaerobic (18.5 mmol/gDW/h) conditions were used for *in silico* batch simulations in this work were those previously determined for *E. coli* W3110 from batch culture in M9 minimal media [73]

^bExperimentally determined glucose uptake rate values from this work used for *in silico* batch simulations for *E. coli* K-12 (15.5 for aerobic and 8.1 for anaerobic), EHEC (7.9 for aerobic and 19.2 for anaerobic) or UPEC (7.7 for aerobic and 17.5 for anaerobic). For the core and pangenome models the average experimentally determined glucose uptake rate values from this work was used (10.3 for aerobic and 14.9 for anaerobic).