

Table 2 The maximum optical density (OD₆₀₀), lag phase (h), and doubling time (h) of three *E. coli* strains K10zwf, K12, and DL323 in aerobic batch cultures in three different minimal media of LMR, SPG, and M9

Strain	Carbon Source	Media	Max (OD600)	Lag Phase (h)	DT (h)	References
K12	Glycerol	SPG	2.3±0.1	1	1.4±0.04	This work
K12	Glycerol	LMR	2.4±0.1	1	1.3±0.1	This work
K12	Glycerol	M9	1.9±0.1	1	1.7±0.1	This work
<i>K12</i>	<i>Glycerol</i>	<i>M9</i>	<i>0.83</i>	<i>1</i>	<i>(2.2)</i>	<i>Paliy and Gunasekera 2007</i>
<i>MG1655</i>	<i>Glycerol</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1.3)</i>	<i>Liu et al. 2005</i>
<i>MC4100</i>	<i>Glycerol</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1)</i>	<i>Oh and Liao 2000</i>
<i>K-10</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1)</i>	<i>Fraenkel 1968</i>
<i>MG1655</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(0.9)</i>	<i>Canonaco et al. 2001</i>
<i>MG1655</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(0.7)</i>	<i>Liu et al. 2005</i>
<i>MG1655</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1.1)</i>	<i>Nicolas et al. 2007</i>
<i>MC4100</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(0.7)</i>	<i>Oh and Liao 2000</i>
K12	Acetate	SPG	1.6±0.1	4±1	0.9±0.1	This work
K12	Acetate	LMR	1.7±0.1	4±1	1±0.2	This work
K12	Acetate	M9	1.1±0.1	5±1	3.1±0.6	This work
<i>K12</i>	<i>Acetate</i>	<i>M9</i>	<i>0.85</i>	<i>5</i>	<i>(3.4)</i>	<i>Paliy 2007</i>
<i>MG1655</i>	<i>Acetate</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(3.3)</i>	<i>Liu et al. 2005</i>
<i>BW25113</i>	<i>Acetate</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(3.5)</i>	<i>Zhao et al. 2004</i>
<i>MC4100</i>	<i>Acetate+ arginine</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(2.1)</i>	<i>Oh et al. 2002</i>
<i>MC4100</i>	<i>Acetate</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(2.3)</i>	<i>Oh and Liao 2000</i>
K10zwf	Glycerol	SPG	1.9±0.1	<2	1.6±0.1	This work
K10zwf	Glycerol	LMR	2.2±0.1	<2	1.2±0.1	This work
K10zwf	Glycerol	M9	1.5±0.1	<2	1.5±0.1	This work
<i>Zwf⁻</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1.1)</i>	<i>Fraenkel 1968</i>
<i>Zwf⁻</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1)</i>	<i>Nicolas et al. 2007</i>
<i>Zwf⁻</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1.2)</i>	<i>Nicolas et al. 2007</i>
<i>Zwf⁻</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1)</i>	<i>Rowley et al. 1991</i>
K10zwf	Acetate	SPG	1.9±0.1	4±1	2.1±0.3	This work
K10zwf	Acetate	LMR	1.8±0.1	4±1	2.3±0.3	This work
K10zwf	Acetate	M9	1.0±0.1	6±1	2.4±0.2	This work
<i>K10-1516</i>	<i>Acetate</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(4)</i>	<i>Rowley et al. 1991</i>
<i>K10-1516</i>	<i>Acetate</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(3.5)</i>	<i>Zhao et al. 2004</i>
DL323	Glycerol	SPG	2.2±0.1	≤1	1.6±0.03	This work
DL323	Glycerol	LMR	2.7±0.1	≤1	1.7±0.1	This work
DL323	Glycerol	M9	2.2±0.2	≤1	1.9±0.1	This work
<i>sdh⁻/mdh⁻</i>	<i>Glucose</i>	<i>M9</i>	<i>n/a</i>	<i>n/a</i>	<i>(1.4)</i>	<i>Fischer and Sauer 2003</i>
DL323	Acetate	SPG	1.6±0.1	7±1	1.3±0.1	This work
DL323	Acetate	LMR	1.5±0.1	10±1.5	1.3±0.1	This work
DL323	Acetate	M9	0.1±0.1	>30	–	This work
<i>mdh</i>	<i>Acetate</i>	<i>M9</i>	<i>No growth</i>			<i>Hansen and Juni 1979</i>

These media are supplemented with 0.2% glycerol or 0.3% acetate. The values are shown as arithmetic mean±standard error of the mean (*n*=3). Also shown, in italics and for comparison, are previous measurements on various *E. coli* strains and media