

Table 8. Kinetic parameters of enzymes involved in the glycolysis pathway in *E. coli*

Enzyme Commission	Coding gene	K_m (mM) forward	K_m (mM) reverse	k_{cat} (s^{-1}) forward	k_{cat} (s^{-1}) reverse	Source
2.7.1.2	Glk	(0.78, ATP), (3.76, β -D-glucose)	N/A	92.17	N/A	Meyer 1997
5.3.1.9	Pgi	1.018	0.078	684	N/A	Ogawa 2007
2.7.1.11	pfkB	(0.018, β -fructose-6-P), (0.012, ATP)	(0.14, β -fructose-1,6-2P)	62	N/A	Rivas-Pardo2011, Babul 1978
3.1.3.11	glpX	(0.1 fructose-1,6-2P)	N/A	14.6	N/A	Kelley-Loughane 2002
3.1.3.11	Fbp	(0.0154, fructose-1,6-2P)	N/A	24	N/A	Hines 2007
4.1.2.13	fbaB	(0.19, fructose-1,6-2P)	N/A	8.17	N/A	Platter 1999
4.1.2.13	fbaA	(0.02 fructose-1,6-2P)	N/A	0.35	N/A	Platter 1999
5.3.1.1	tpiA	1.03	N/A	5.4×10^4	N/A	Alvarez 1998
1.2.1.12	gapA	(0.045, NAD), (0.89, 3-PGA), (0.53 Pi)	N/A	268	N/A	Eyschen 1999
2.7.2.3	Pgk	N/A	(0.24, MgATP)	N/A	328.94	Fifis 1978
5.4.2.11	gpmA	(200, 3-PGA)	(190, 2-PGA)	330	220	Fraser 1999
5.4.2.12	gpmM	(210, 3-PGA)	(97, 2-PGA)	22	10	Fraser 1999
4.2.1.11	Eno	0.1	N/A	197.8	N/A	Spring 1971
2.7.1.40	pykF	(0.13, PEP)	N/A	N/A	N/A	Malcovati 1969
2.7.1.40	pykA	(0.82, PEP)	N/A	N/A	3480	Somani 1977
2.7.9.2	ppsA	N/A	(0.83, pyruvate), (0.028, ATP)	N/A	7.84	Berman 1970
1.1.1.28	ldhA	(2.6, pyruvate)	N/A	410	N/A	Furukawa 2014
2.3.1.54	tdcE	N/A	N/A	N/A	N/A	
2.3.1.54	pflB	(2.05, pyruvate), (0.0068, CoA)	(24.5, formate), (0.051, acetyl-CoA)	1100	280	Campos-Bermudez 2010
2.3.1.8	Pta	(2.1 Pi, 0.0449 acetyl-CoA)	(0.9, acetyl-P), (0.0672 CoA)	29.6	227.6	Campos-Bermudez 2010
2.3.1.8	eutD	(0.0095, acetyl-CoA)	(0.3117, acetyl-P), (0.0327, CoA)	119	415.5	Bologna 2010
2.7.2.1	purT	(0.16, acetyl-P), (0.5, ADP)	(7, acetate), (0.07, ATP)	3033	2333	Fox 1986
2.7.2.1	ackA	N/A	N/A	N/A	N/A	
1.2.1.10	mhpF	(38, acetaldehyde), (90, CoA), (0.25, NAD ⁺)	N/A	15.70	N/A	Fischer 2013
1.1.1.1	adhP	(0.03, acetaldehyde)	(0.7, ethanol)	163.33	67.5	Shaqfat 1999
1.1.1.1	adhE	(5.4, acetaldehyde)	(240, ethanol)	256.34	640.85	Membrillo-Hernández 2000

Note. N/A = not available.