



Abbreviation	Glycolytic reactions
HEX1	[c]GLC + ATP \rightarrow G6P + ADP + H
PGI	[c]G6P \leftrightarrow F6P
PFK	[c]ATP + F6P \rightarrow ADP + FDP + H
FBA	[c]FDP \leftrightarrow DHAP + G3P
TPI	[c]DHAP \leftrightarrow G3P
GAPD	[c]G3P + NAD + PI \leftrightarrow 13DPG + H + NADH
PGK	[c]13DPG + ADP \leftrightarrow 3PG + ATP
PGM	[c]3PG \leftrightarrow 2PG
ENO	[c]2PG \leftrightarrow H ₂ O + PEP
PYK	[c]ADP + H + PEP \rightarrow ATP + PYR

Reactions \rightarrow

Metabolites \uparrow

	HEX1	PGI	PFK	FBA	TPI	GAPD	PGK	PGM	ENO	PYK
ATP	-1	0	-1	0	0	0	1	0	0	1
GLC	-1	0	0	0	0	0	0	0	0	0
ADP	1	0	1	0	0	0	-1	0	0	-1
G6P	1	-1	0	0	0	0	0	0	0	0
H	1	0	1	0	0	1	0	0	0	-1
F6P	0	1	-1	0	0	0	0	0	0	0
FDP	0	0	1	-1	0	0	0	0	0	0
DHAP	0	0	0	1	-1	0	0	0	0	0
G3P	0	0	0	1	1	-1	0	0	0	0
NAD	0	0	0	0	0	-1	0	0	0	0
PI	0	0	0	0	0	-1	0	0	0	0
13DPG	0	0	0	0	0	1	-1	0	0	0
NADH	0	0	0	0	0	1	0	0	0	0
3PG	0	0	0	0	0	0	1	-1	0	0
2PG	0	0	0	0	0	0	0	1	-1	0
PEP	0	0	0	0	0	0	0	0	1	-1
H ₂ O	0	0	0	0	0	0	0	0	1	0
PYR	0	0	0	0	0	0	0	0	0	1

