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| --- | --- | --- | --- |
| **Reaction nr** | **reaction** | **Function** | **Present in model(s)** |
| 1 PTS\_Glc  Glucose proton symporter | GLC\_Ext + PEP -> G6P + PYR; FBP Pi\_Int | A screenshot of a cell phone  Description automatically generated | 1,2,3,4,5,6 |
| 2 PGI  Glucose-6-phosphate isomerase | G6P = F6P | A screenshot of a cell phone  Description automatically generated | 1,2,3,4,5,6 |
| 3 PFK Phosphofructokinase | F6P + ATP ->  FBP + ADP | A picture containing wall  Description automatically generated | 1,2,3,4,5,6 |
| 4 FBA  Fructose-bisphosphate aldolase | GAP + Pi\_Int + NAD = DGP + NADH |  | 1,2,3,4,5,6 |
| 5 GAPDH  Glyceraldehyde-3-phosphate dehydrogenase | DGP + ADP = PEP + ATP |  | 1,2,3,4,5,6 |
| 6 ENO  Enolase | PEP + ADP -> PYR + ATP; FBP Pi\_Int |  | 1,2,3,4,5,6 |
| 7 PYK  Pyruvate kinase | PYR + CoA + NAD = AcCoA + NADH; GAP | A screenshot of a cell phone  Description automatically generated | 1,2,3,4,5,6 |
| 8 LDH  Lactate dehydrogenase | PYR + NADH -> LAC + NAD; FBP Pi\_Int\* O2 |  | 1\*,2\*,3\*,4\*,5,6 |
| 9 PDH  Pyruvate dehydrogenase | PYR + CoA + NAD = AcCoA + NADH; GAP | A screenshot of a cell phone  Description automatically generated | 1,2,3,4,5,6 |
| 10 PTA\_ACK  Phosphotransacetylase | AcCoA + ADP -> ACE + ATP + CoA | A screenshot of a cell phone  Description automatically generated | 1,2,3,4,5,6 |
| 11 ATPase | ATP -> ADP + Pi\_Int | A screenshot of a cell phone  Description automatically generated | 2,4,6 |
| 12 NOXE  NADH oxidase | O2 + 2 \* NADH -> 2 \* NAD | A close up of a sign  Description automatically generated | 3,4,6 |

\*Models marked with an asterisk contain the function for Lactate Dehydrogenase without the oxygen inhibition term