Glycolysis

(Glucose)

Glut

(Glucose-6-P) PO_4^{3-}

AdP / ATP — Hexokinase Glucokinase (Liver)

Phosphorexase Isomerase

PO_4^{3-} (Fructose-6-P)

ATP / AdP — P.F.K.-1

PO_4^{3-} (Fructose-1,6 BP) PO_4^{3-}

2 NAdH / 2 NAd⁺

Aldolase

(Triose-P-Isomerase)

PO_4^{3-} Dihydroxy Acetone Phosphate (DHAP)

PO_4^{3-} (Glyceraldehyde-3-P)(2) (GA3P)

GA3P D.H. — Pi

PO_4^{3-} (1,3-Bisphosphoglycerate)(2)

2 AdP / 2 ATP — Phosphoglycerate Kinase

PO_4^{3-} (3-phosphoglycerate)(2)

(Phosphoglycerate mutase) PO_4^{3-}

(2-phosphoglycerate)(2)

PO_4^{3-} — Enolase

(Phosphoenol Pyruvate)(2) (PEP)

2 AdP / 2 ATP — Pyruvate Kinase

(Pyruvate)(2) — Aerobic (O₂↑) — (Acetyl-CoA)

2 NAd⁺ / 2 NAdH — Anaerobic (No O₂) — L.D.H.

Lactic Acid

Glucose / ATP
Liver
↓pH (Acidic)

LDH
- Ischemia
- M.I.
- Necrotic bowel

H ⊕ e⁻ e⁻
Hydride = ⊕ + 2e⁻

I - BBB
- Blood (RBC's)
- Fetus
- Blood Brain Barrier

II - Kids Lips
- Kidney
- Liver
- Pancreas

are

III - Pink
- Placenta
- Neurons
- Kidney

✱ IV - Mother — Muscle
Father — Fat (Adipose)
(Insulin Dependent)

Glycolysis
- Cytoplasm
- Glucose: S.S.
- (2) Pyruvates: E.P.
- Gross: 4 ATP
- Used: 2 ATP
- 2 NAdH
- Anaerobic (↓O₂)
  ↳ Lactic acid