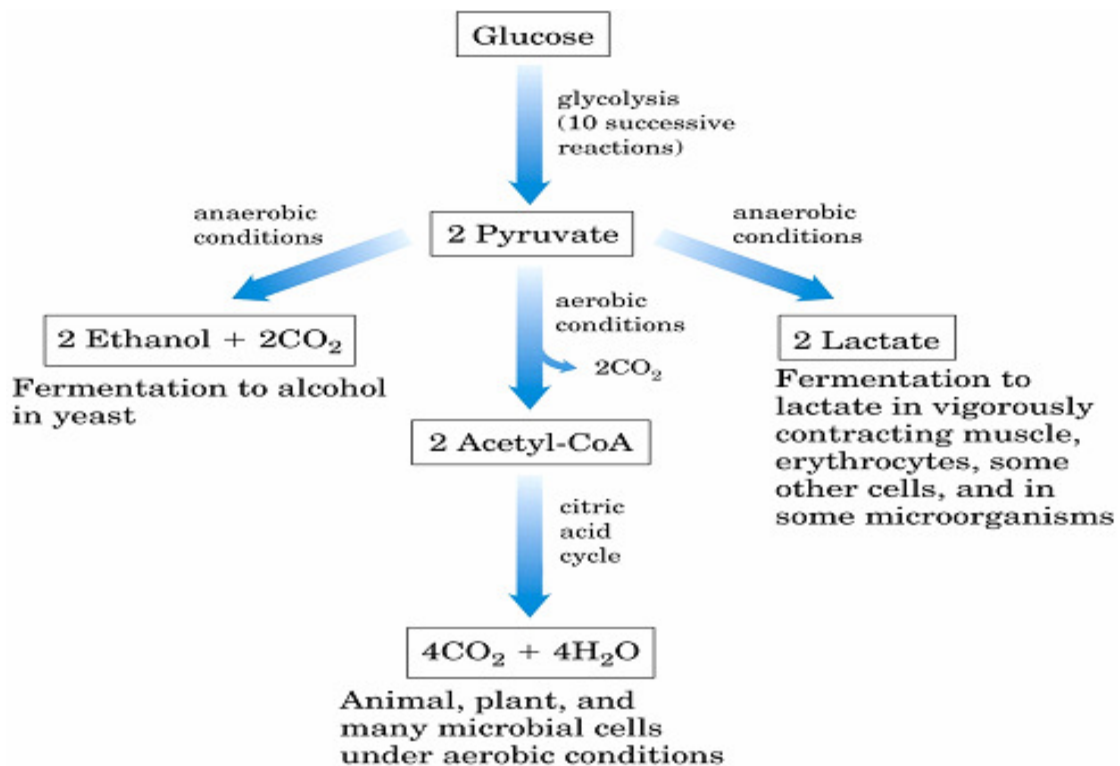
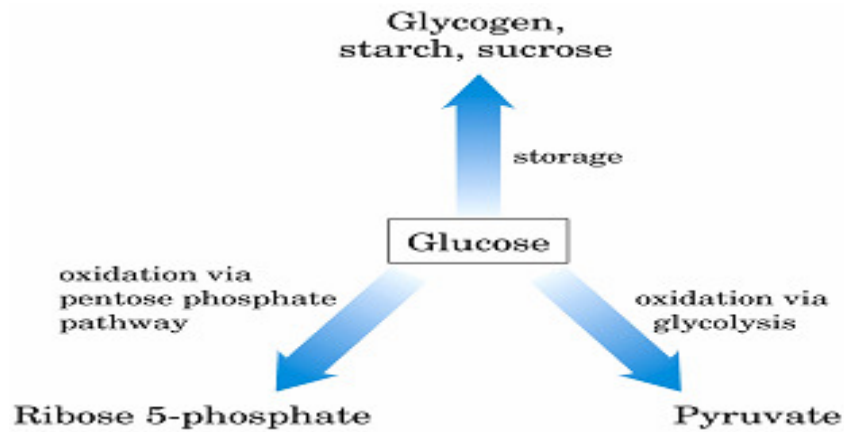
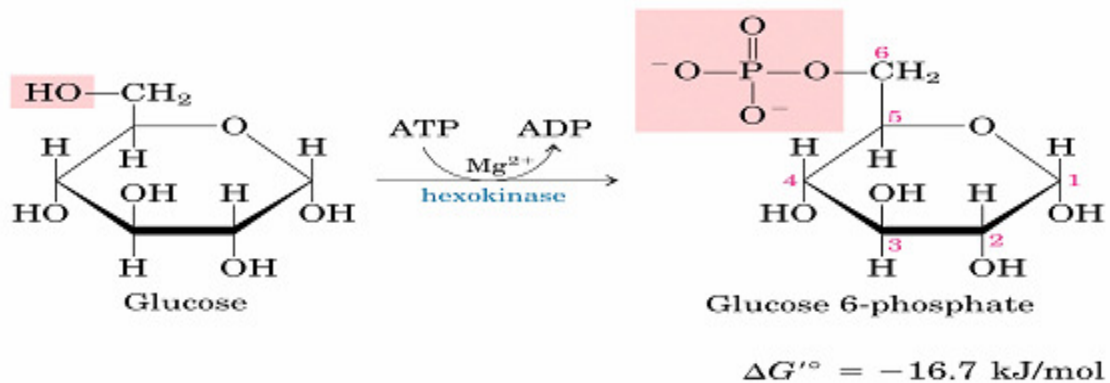
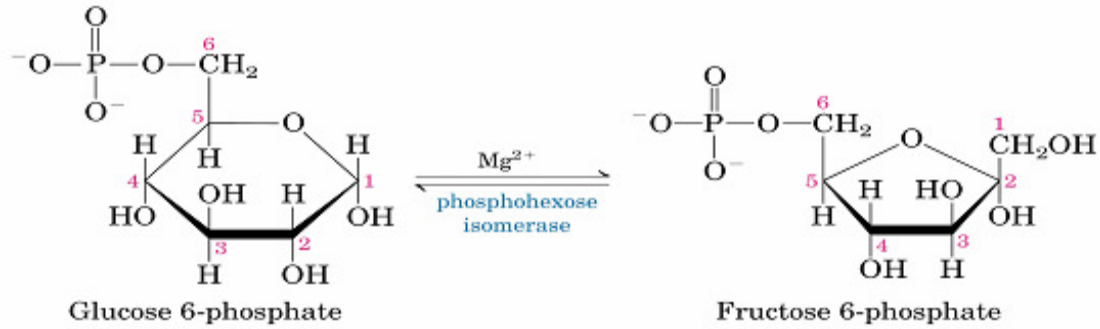


Glycolysis and catabolism of hexoses

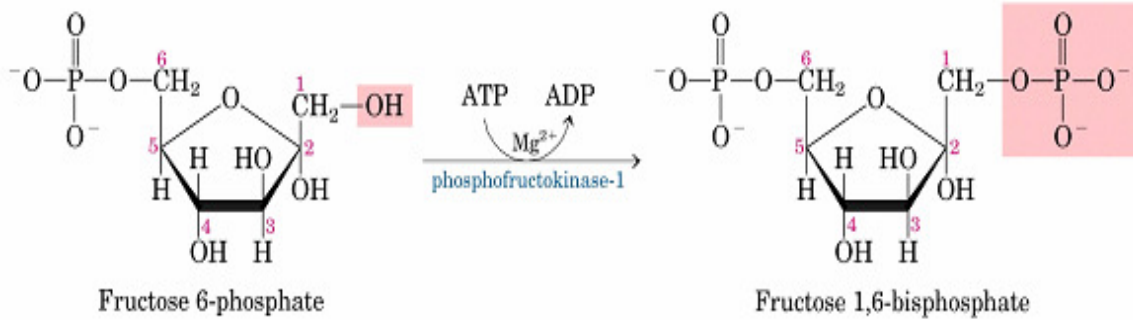


Glycolysis

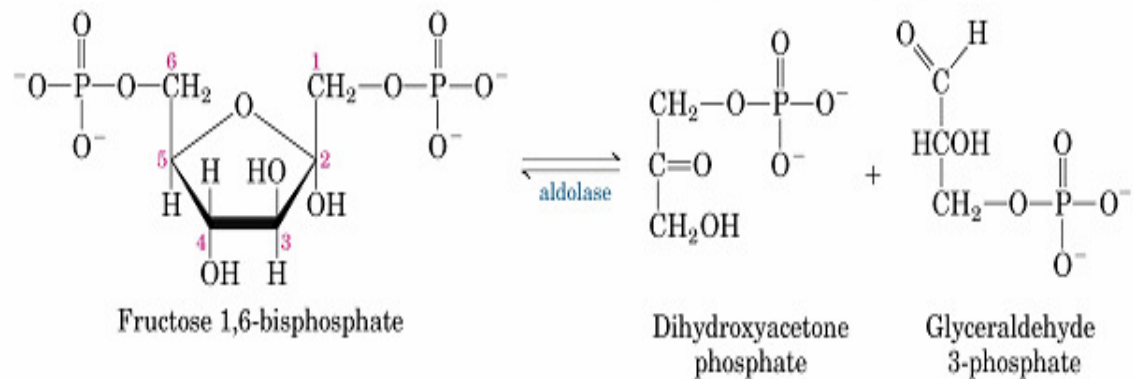




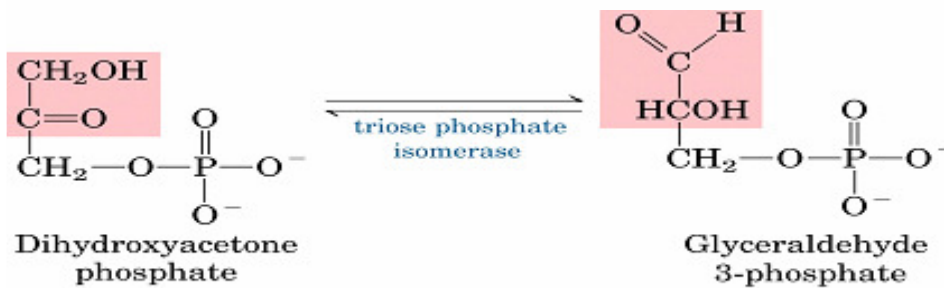
$$\Delta G'^{\circ} = 1.7 \text{ kJ/mol}$$



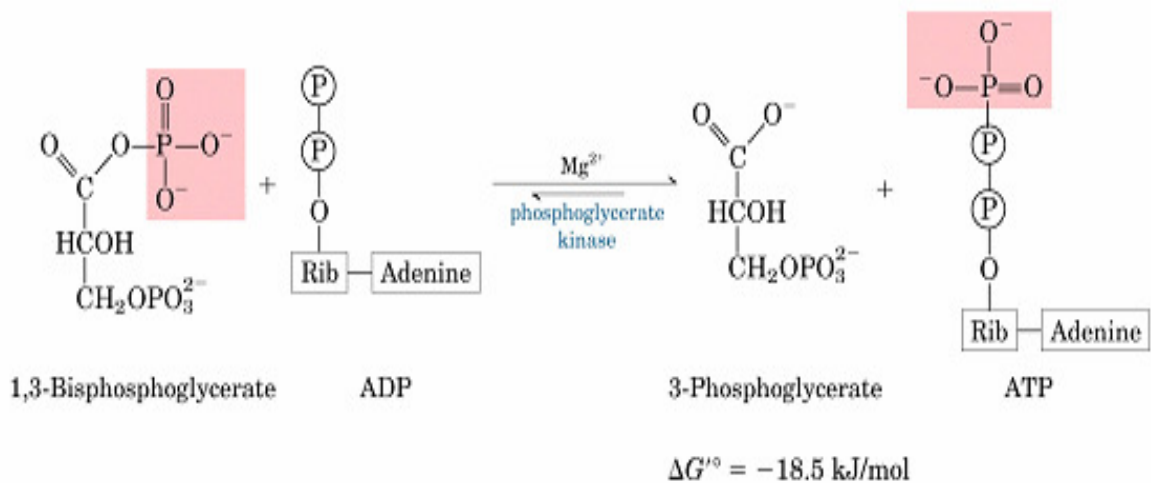
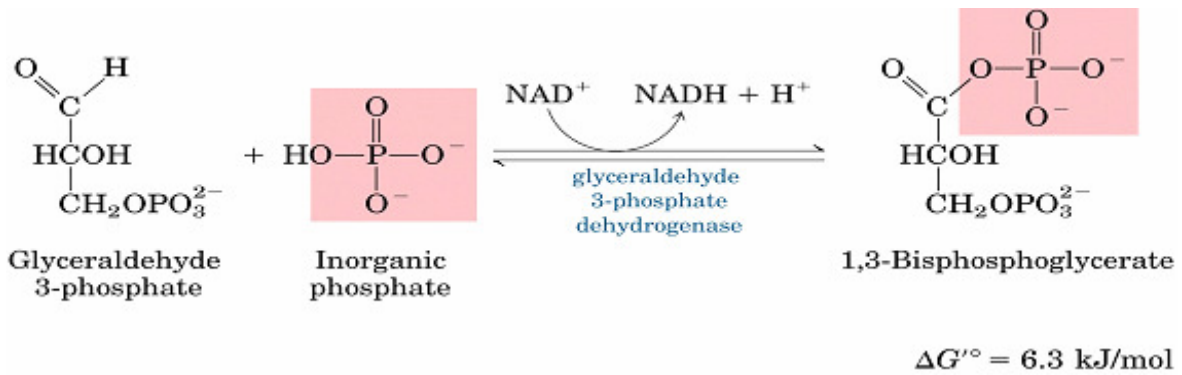
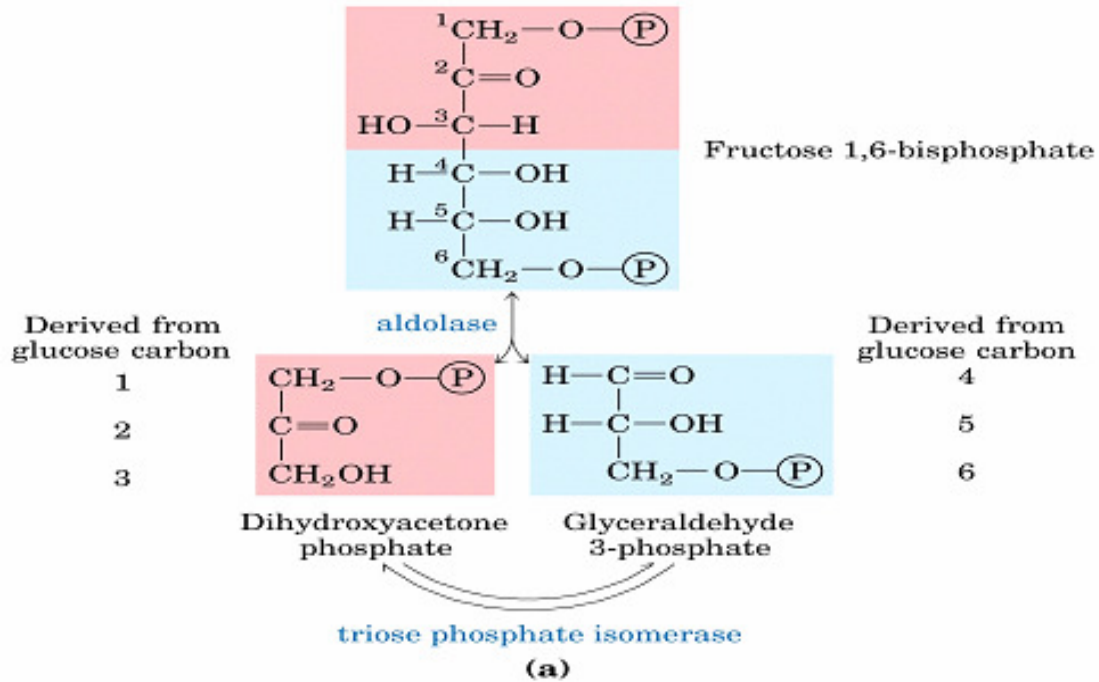
$$\Delta G'^{\circ} = -14.2 \text{ kJ/mol}$$

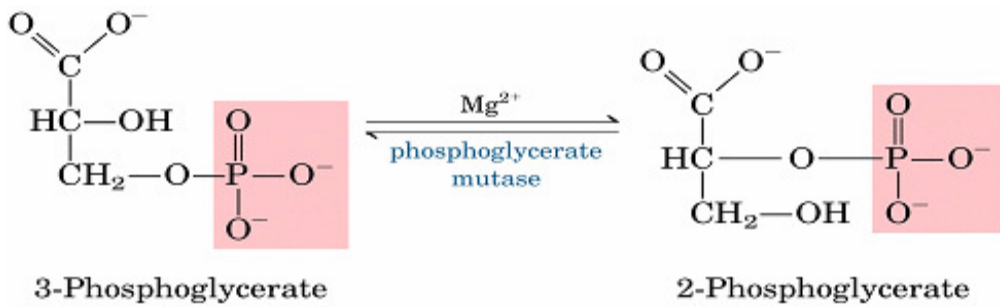


$$\Delta G'^{\circ} = 23.8 \text{ kJ/mol}$$

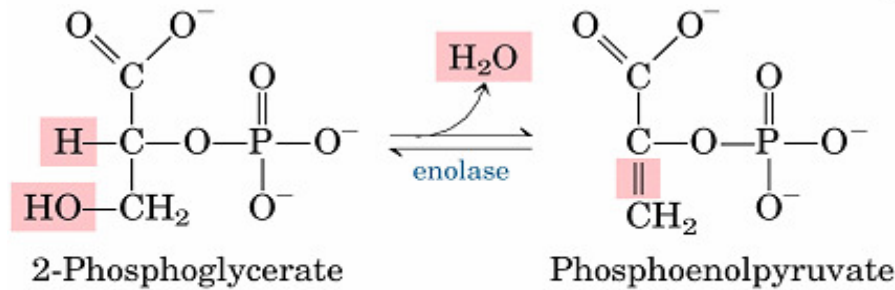


$$\Delta G'^{\circ} = 7.5 \text{ kJ/mol}$$

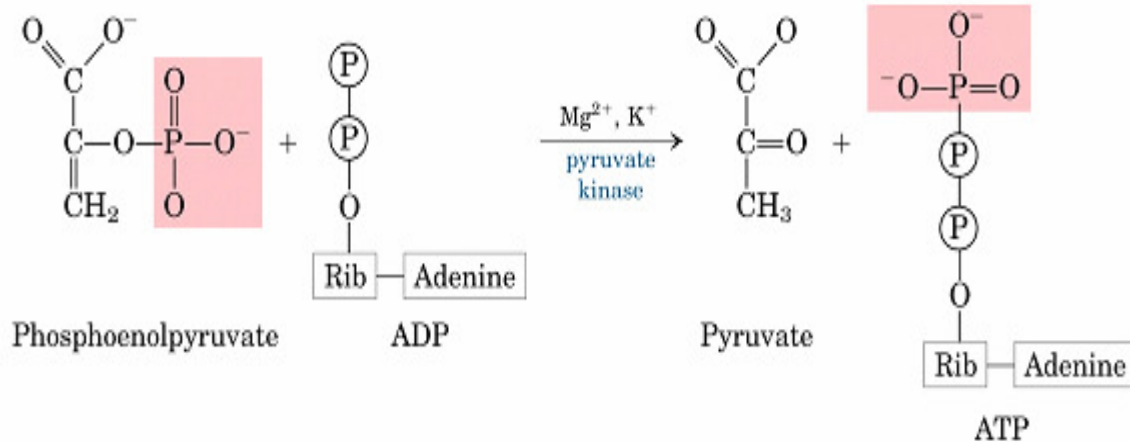




$\Delta G'^{\circ} = 4.4 \text{ kJ/mol}$



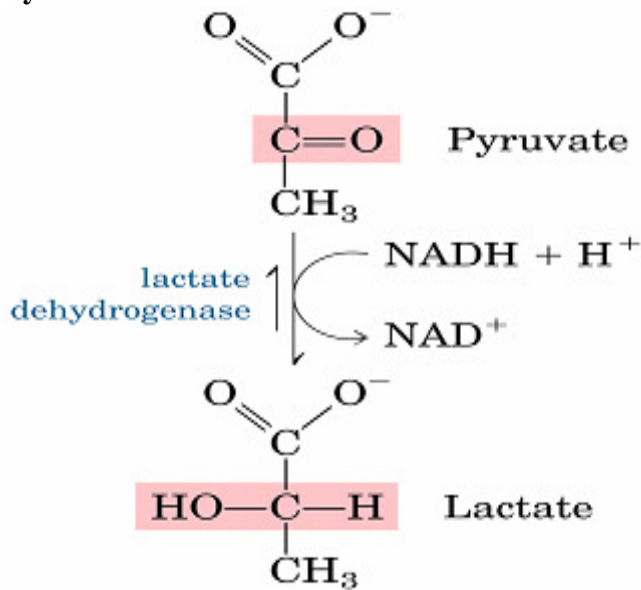
$\Delta G'^{\circ} = 7.5 \text{ kJ/mol}$



$\Delta G'^{\circ} = -31.4 \text{ kJ/mol}$



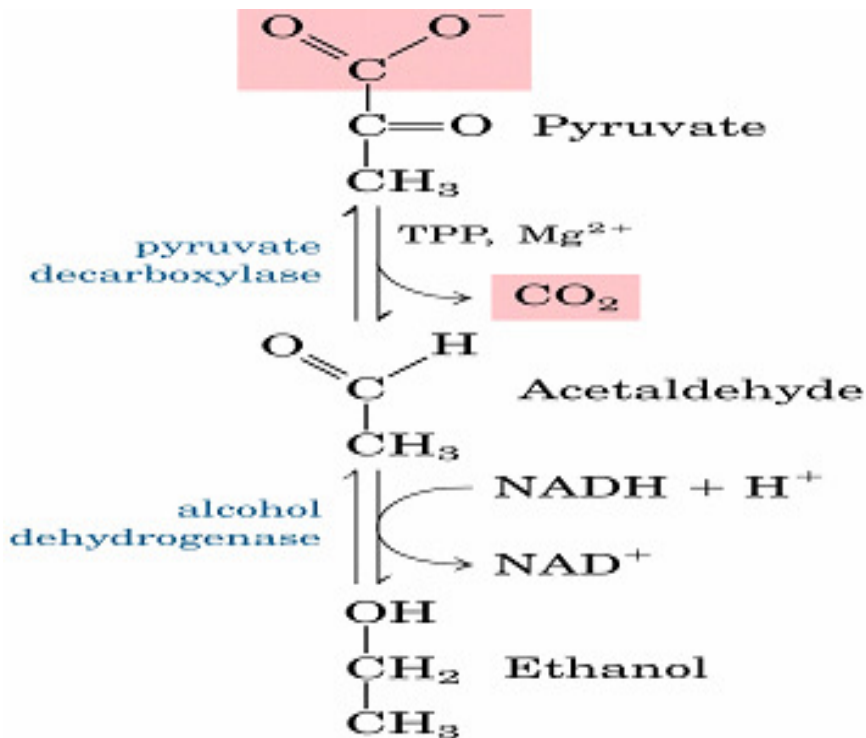
Pyruvate under anaerobic condition



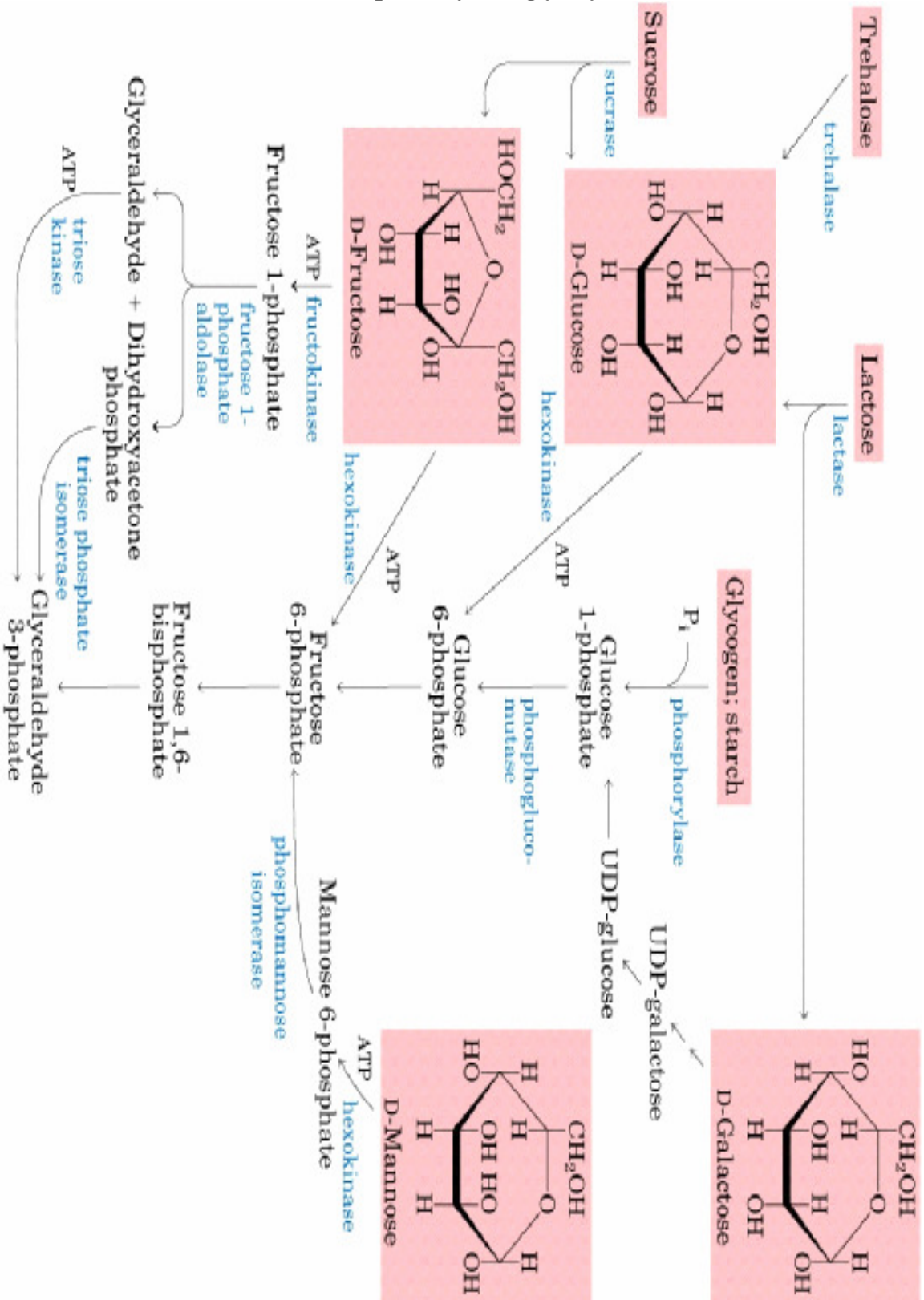
$$\Delta G'^{\circ} = -25.1 \text{ kJ/mol}$$

Pyruvate into ethanol (Anaerobic condition)

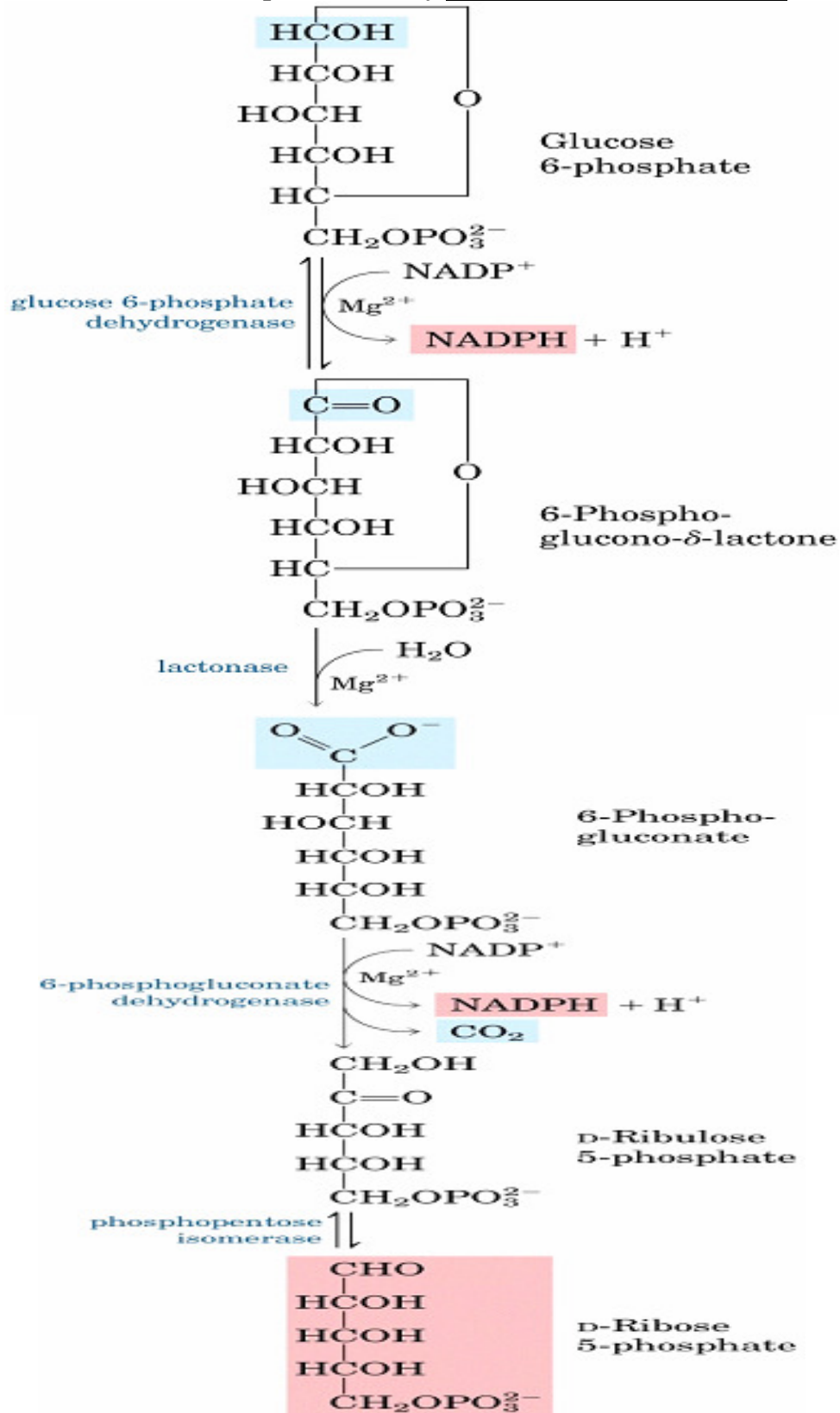
TPP – Thiamine pyrophosphate



Feeder pathways for glycolysis



The Pentose Phosphate Pathway (Phosphogluconate pathway)



Net Gain: 2NADPH