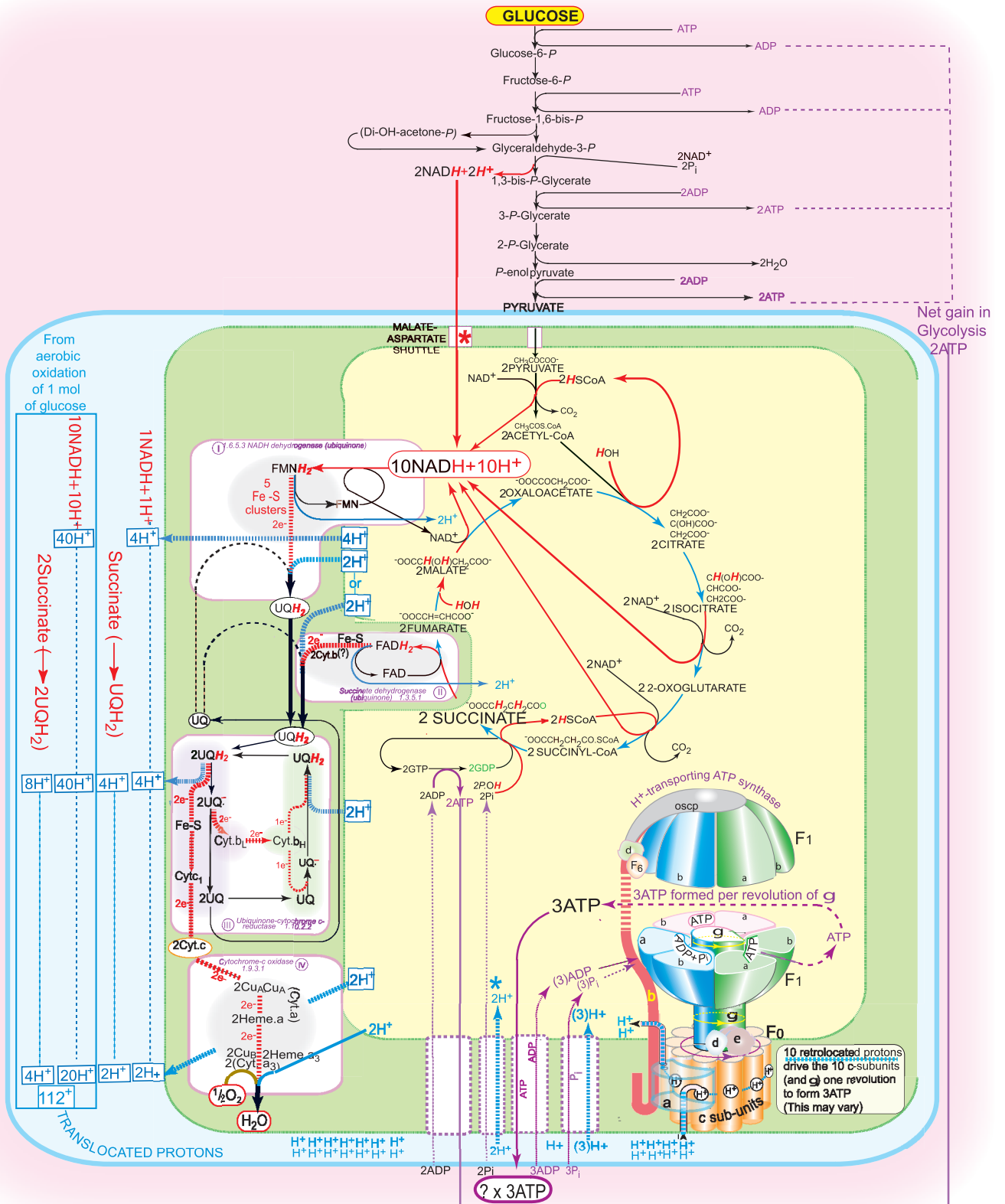


APPROXIMATE YIELD OF ATP FROM GLUCOSE



Approximate yield of ATP from oxidation of 1 mol of Glucose

Translocated Protons per Glucose

From Oxidation of 10NADH + 2 Succinate	112
* Less for transport of 2 NADH in shuttle	-2
* Less for transport of 2 Pi for formation of GTP in TCA cycle	-2
NET yield of translocated protons from 1 mol of glucose	108

Retrolocated Protons per mol. of ATP

* Assume 10 protons drive formation of 3ATP in 1 revolution of g	
Add 3 " needed for transport of 3 Pi to form 3ATP	
Total of 13 " needed for formation of 3ATP	

Hence 108 " will drive formation of $(108 \times 3) / 13 = 25$ ATP
 Add 2 ATP formed from GTP in TCA cycle 2 "
 Add 2 ATP formed in Glycolysis in the cytoplasm 2 "
 (Approximate) Total ATP formed per mol. of Glucose = 29

