

Table V. Calculated Values for Free Energy Changes of Stromal and Cytosolic Enzymic Reactions in Spinach Leaves during Photosynthesis under Air

Average values from the data in Figure 5.

Enzyme	Standard Free Energy ΔG_0	Free Energy Change in <i>Vivo</i> ΔG	
		Stromal reaction	Cytosolic reaction
		<i>KJ/mol</i>	
1. Ru1,5P ₂ carboxylase	-35.3	-11.5 ^a	
2. Aldolase	-23.1	+4.6 ^b	+0.8
3. Fru1,6Pase	-16.8	-28.2 ^c	-32.3 ^c
4. Phosphoglucose isomerase	-3.0	-2.7	0.1

^a Assumed (CO₂) = 10 μM. ^b For the case that trioseP are in trioseP isomerase equilibrium. ^c Assumed (P_i) = 10 mM.