

Table I. Subcellular Content of ATP, ADP, 3-PGA, and DHAP in Spinach Leaves

Spinach plants were grown in a climatized chamber with a 9 h light/15 h dark cycle and leaves were stopped in liquid N₂ after 8.5 h light or 2 h dark. The leaves were subcellular fractionated (8). The results are mean values \pm standard deviation of six measurements from three preparations. The concentrations are calculated under an assumed chloroplast volume of 25 μ L/mg Chl and a cytosolic volume of 20 μ L/mg Chl (8).

Assay	Stroma	Cytosol + Mitochondria
		<i>mm</i>
A. Light 8.5 h		
ATP	1.80 \pm 0.28	2.55 \pm 0.40
ADP	0.76 \pm 0.12	0.65 \pm 0.25
DHAP	0.39 \pm 0.20	0.90 \pm 0.25
3-PGA	4.00 \pm 1.3	2.55 \pm 0.40
B. Dark 2 h		
ATP	0.64 \pm 0.12	1.45 \pm 0.25
ADP	1.08 \pm 0.28	0.80 \pm 0.20
DHAP	<1	<1
3-PGA	4.8 \pm 1.4	3.6 \pm 0.8