

Table III. Pyridine Nucleotide Content of 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 as (8). The results are mean values \pm standard deviation of six measurements from three preparations. The concentrations are calculated on the assumptions given in Table I.

Assay	Stroma	Cytosol + Mitochondria
		<i>mM</i>
A. Light 8.5 h		
NADPH	0.29 \pm 0.03	0.15 \pm 0.06
NADP ⁺	0.59 \pm 0.13	0.045 \pm 0.033
NAD ⁺	0.19 \pm 0.02	0.60 \pm 0.13
<u>NADPH</u> NADP	0.5	3.3
B. Dark 2 h		
NADPH	0.12 \pm 0.02	0.15 \pm 0.05
NADP ⁺	0.51 \pm 0.12	0.038 \pm 0.043
NAD ⁺	0.92 \pm 0.36	0.73 \pm 0.4
<u>NADPH</u> NADP	0.23	4.0