

Table VI. *Concentration Gradients for DHAP Across the Chloroplast Envelope Membrane*

Estimated from the results of Figure 5, assuming a stromal volume of 25 μ l and a cytosolic volume of 20 μ l.

Conditions	$\frac{(\text{DHAP})_{\text{stroma}}}{(\text{DHAP})_{\text{cytosol}}}$	Concentration Difference between Stroma and Cytosol
	<i>ratio</i>	<i>mM</i>
A. 40 min light	2.1	+0.34
2 h 30 min light	2.4	+0.56
5 h 30 min light	1.5	+0.29
8 h 30 min light	0.7	-0.24
B. 2 h light	2.6	+0.39
2 h light + 5 min light (N ₂ , CO ₂ -free)	0.5	-0.07