Table IV. Estimation of AdN Binding Site Concentrations in Maize Mesophyll Chloroplasts

Enzymes	ATP	ADP	AMP
		тм	
CF <sub>1</sub> <sup>a</sup>	0.18	0.18	
PPDK <sup>b</sup>	0.36		0.36
Adenylate kinase <sup>c</sup>	0.24	0.48	0.24
3-Phosphoglycerate kinase <sup>d</sup>	0.02	0.02	
Total	0.80	0.68	0.60

<sup>&</sup>lt;sup>a</sup> Based on CF<sub>1</sub>/Chl ratio of 1/700 with spinach leaves (32) and three b Based on maize PPDK specific activity of catalytic ADP sites/CF<sub>1</sub>. 10 units mg<sup>-1</sup> protein (2), a mol wt of the subunit of mazie PPDK of 94,000 (11), and PPDK activity of 300 μ mol·mg<sup>-1</sup> Chl in maize leaves (42) with 60% of total maize Chl in mesophyll chloroplasts. on a specific activity of maize adenylate kinase of 1270 units mg<sup>-1</sup> protein (22), a mol wt of maize adenylate kinase of 29,000 (23), maize adenylate kinase activity of 220 units mg<sup>-1</sup> mesophyll Chl (17) and on the number of binding sites of ATP, ADP, and AMP being one, two, and one, respectively. Activity of adenylate kinase in mesophyll cells is d Based on the specific activity of mainly found in chloroplasts (17). the enzyme being 900 units mg<sup>-1</sup> protein and having a mol wt of 48,000 with Beta vulgaris (26) and an enzyme activity of 1,300 μmol·mg<sup>-1</sup> mesophyll Chl with maize mesophyll protoplasts (25). This enzyme is also localized in the cytoplasm, so this is the maximum estimate.