

Table 1. ΔpH in digitonin subchloroplast particles

The medium contained 100 mM choline chloride 10 mM Tris tricine pH 8.0 and 10 μ M pyocyanine; chloroplast concentration was 30 to 50 μ g chlorophyll/ml in the electrode experiment, 10 to 20 μ g/ml in the fluorescence experiment and about 400 μ g/ml in the [14 C]methylamine experiments. The different fractions were obtained by differential centrifugation between the indicated values. The osmotic volume of the digitonin particles was similar to that of the chloroplasts [2]. For other details see Methods

Particles	ΔpH measured by		
	[14 C]Methyl- amine	Electrode	Fluores- cence quenching
Control chloroplasts	2.6	3.4	3.4
Digitonin-treated particles			
1000—2000 $\times g$ fraction	1.5	2.1	2.3
2000—10000 $\times g$ fraction	1.8	2.4	2.4
10000—40000 $\times g$ fraction	1.9	2.4	2.3
40000—100000 $\times g$ fraction	1.9	2.3	2.3