Table 3. Volumes of subcellular compartments in spinach leaves as evaluated by linear regresion analysis ($n = 173$; for subchloroplastic spaces: $n = 25$)

Compartment	Fixed material		Fresh material
	%	$\mu L \cdot (mg\ Chl)^{-1}$	$\mu L \cdot (mg\ Chl)^{-1}$
Mesophyll:			
Whole Cell	100	316	688 ± 56
Vacuole	68	215	545 ± 38
Chloroplast	25.4	80	113 ± 36
Stroma	14.7	46	65 ± 21
Thylakoid	8.0	25	36 ± 11
Starch	2.8	8.8	13 ± 4
Plastoglobuli	0.23	0.73	1.0 ± 0.4
Cytosol	5.4	17	24 ± 9
Mitochondria	0.82	2.6	3.6 ± 2.3
Nuclei	0.48	1.5	2.1 ± 0.5
Epidermis:			
Whole Cell	100	15	36 ± 3
Vacuole	89.2	14	34 ± 0.8
Chloroplast	1.7	0.26	0.4 ± 0.3
Cytosol + nuclei	8.7	1.3	1.8 ± 0.5
Mitochondria	0.5	0.08	0.1 ± 0.04