Table 1 Cytoplasmic and vacuolar pH values in a variety of plant materials

	Plant species	Technique used	Cytoplasmic pH	Vacuolar pH	ΔpH	References
Higher plant cells						
Suspension cultures						
	A. pseudoplatanus	^{31}P NMR	7.3–7.5	5.9	1.4–1.6	110
	C. roseus	^{31}P NMR	7.5–7.6	5.4	2.1–2.2	113
	R. damascena	^{31}P NMR	7.5–7.7	5.9	1.7–1.9	121
	L. multiflorum	^{31}P NMR	6.7	4.0	2.7	167
	N. tabacum	^{31}P NMR	7.5	5.9	1.6	193
	P. vulgaris	^{31}P NMR	7.5	5.3	2.2	128
Organs						
roots	*Z. mays*	^{31}P NMR	6.8–7.0	5.5	1.3–1.5	74
		^{31}P NMR	7.0–7.2	5.5	1.5–1.7	1
		^{31}P NMR	7.0–7.2	5.6	1.4–1.6	155
		DMO and cell sap extract	7.7–7.9	5.6	2.1–2.3	108
	R. sativus	microelectrodes	7.2	6.0	1.2	177
	R. fluitans	microelectrodes	7.3	4.8	2.5	47
	S. alba	microelectrodes	7.3	4.6	2.7	37
leaves	*E. densa*	DMO and cell sap extract	7.5	5.3	2.2	107
internodes	*P. sativum*	^{31}P NMR	7.5	5.8	1.7	181
Algal cells						
	N. obtusa	^{31}P NMR	7.3	5.3	2.0	117
	L. populosum	DMO and cell sap extract	7.5	4.9–5.1	1.4–1.6	75