

TABLE 1. *Neurons and nerve fibers*

Tissue	Method	Temperature, °C	pH <sub>e</sub>	Buffer	pH <sub>i</sub>	Comments	Ref.
Squid axon ( <i>L. forbesi</i> )	el(Cw)		7.4–8.05	Unspecified (no CO <sub>2</sub> )	7.10 ± 0.028 (29)		75
Squid axon ( <i>L. pealeii</i> )	el(S)		7.95	Seawater	7.25–7.45 (65)	V <sub>m</sub> = –55 to –61	420
	el(Sb)		7.8?	Seawater	7.0 ± 0.2 (7)	No change with high [K <sup>+</sup> ] <sub>o</sub> or pH <sub>o</sub> 5.0 or 9.0	30
	el(H)	23	7.6–7.8	5 mM Tris-HEPES	7.32 ± 0.013 (22)	V <sub>m</sub> = –56.7 ± 0.7	42
	el(H) DMO	22 22	7.70 7.70	5 mM Tris-HEPES 5 mM Tris-HEPES	7.35 ± 0.006 (126) 7.36 ± 0.025 (6)	V <sub>m</sub> = –57 Sorbitol for extracellular space	46
Snail neuron ( <i>H. pomatia</i> )	el(K)		7.81		7.26 ± 0.10	V <sub>m</sub> = –59.7	242, 418
Snail neuron ( <i>H. aspersa</i> )	el(T)		8.0	20 mM Tris-maleate	7.41 ± 0.015 (32)	V <sub>m</sub> = –44.2 ± 0.76	429
Barnacle photoreceptor ( <i>B. eburneus</i> )	el(T)				7.2 (8)	Dark-adapted for 0.5 h; after illumination, pH <sub>i</sub> = 7.0–7.1	57
Rat superior cervical ganglion	DMO	22–27	7.37	HCO <sub>3</sub> <sup>-</sup> –5% CO <sub>2</sub>	7.33 ± 0.018 (10)	Mannitol	55
	Nicotine	22–27	7.37	HCO <sub>3</sub> <sup>-</sup> –5% CO <sub>2</sub>	6.54 (8)	Mannitol	
	DMO	25	7.4	HCO <sub>3</sub> <sup>-</sup> –5% CO <sub>2</sub>	7.31 ± 0.003 (46)	Medium contained 2.5 mM hexamethonium; pH <sub>i</sub> measured with atropine, morphine, and trimethylamine were nearly identical	54
	Nicotine	25	7.4	HCO <sub>3</sub> <sup>-</sup> –5% CO <sub>2</sub>	6.51 ± 0.011 (36)		

Numbers in parentheses are number of studies. el(Cw), Caldwell-style glass electrode; el(S), Spyropoulos-style glass electrode; el(H), Hinke-style glass electrode; el(K), Kostyuk-style glass electrode; el(T), Thomas-style glass electrode; el(Sb), antimony electrode.