

TABLE 10. *Mammalian and avian cells (other than nerve, muscle, and blood cells)*

Tissue	pH _e	pH _i	Comments	Ref.
Rat liver	7.4	7.17 ± 0.09 (4)	Inulin for ECS; liver was perfused at 35°C	79
	7.45	7.20 ± 0.03 (11)	In vivo; inulin for ECS; V _m = -41 ± 0.3 (120)	476
	7.37-7.40	7.17 ± 0.023 (11)	In vivo; inulin for ECS	205
Rat brown fat	~7.4	7.39 ± 0.010 (20) 6.39 ± 0.028 (9)	In vitro; HCO ₃ ⁻ buffer at 25°C; rats first exposed to 4°C for 24 h; second value obtained with nicotine	54
Mice pancreatic islets	7.4	6.98	In vitro; obese, hyperglycemic mice; sucrose for ECS; 3 mM glucose in medium; HCO ₃ ⁻ buffer at 37°C	172
Baby mice teeth				
Soft tissues	7.35	7.0-7.2	In vivo; soft tissue includes pulp, epithelium, odontoblast, ameloblast; calcified tissue includes predentine, dentine, enamel, bone	265
Calcified tissues	7.35	7.3-8.5		
Dog stomach parietal cells	7.38-7.45	7.28 ± 0.02 (7)	In vitro; inulin for ECS; mucosa first treated with pronase and collagenase; HCO ₃ ⁻ buffer at 37°C	104
Chicken shell gland	7.29	7.02 (2)	In vivo; inulin, Cl ⁻ , or SCN ⁻ for ECS; the pH _i falls to 6.53 ± .39 (10) between 2 and 10 h of calcification	411

Unless otherwise indicated, pH_i values obtained with DMO. Numbers in parentheses are number of studies. ECS, extracellular space.