

TABLE 9. *Blood cells in vitro*

Species	Method	pH <sub>i</sub>	Buffer	pH <sub>i</sub>	Comments	Ref.
<b>Erythrocytes</b>						
Rabbit	DMO	7.40	Phosphate	7.27 ± 0.05 (40)	Agrees with pH derived from Cl distribution; temperature not given	78
	<sup>31</sup> P NMR	6.7		a) 6.86 ± 0.05 b) 6.89 ± 0.06	Hemoglobin reduced with CO; cells suspended in plasma; a) from P peaks of diphosphoglycerate; b) from P peak of P <sub>i</sub> ; temp. not given	302
Human	DMO	7.47	HCO <sub>3</sub> <sup>-</sup> -5% CO <sub>2</sub>	7.27	Between 2 and 24% CO <sub>2</sub> , pH-DMO remains equal to pH-(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	36
	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7.47	HCO <sub>3</sub> <sup>-</sup> -5% CO <sub>2</sub>	7.25		
Cockereel	DMO	7.40	HCO <sub>3</sub> <sup>-</sup> -5% CO <sub>2</sub>	7.31	Between 2 and 24% CO <sub>2</sub> , pH-DMO > pH-(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	36
	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7.40	HCO <sub>3</sub> <sup>-</sup> -5% CO <sub>2</sub>	7.16		
Human	DMO	7.26	HEPES 20 mM	7.15 ± 0.006 (4)	Both measurements on same samples; difference not significant	54
	Nicotine	7.26	HEPES 20 mM	7.08 ± 0.007 (4)		
	DMO	7.34	Plasma	7.10 (20)	Both measurements on same samples; difference not significant	466
	Nicotine	7.34	Plasma	7.06 (20)		
Leukocytes, human	DMO	7.40	HCO <sub>3</sub> <sup>-</sup> -5% CO <sub>2</sub>	7.11 ± 0.01 (8)		254

Temperature 37°C unless otherwise indicated. Numbers in parentheses are number of studies.