



BLOOD ANALYSIS

9. Reference Ranges

Note: These reference ranges have been provided by Woodley Equipment Company Ltd.

PARAMETERS	Units	CANINE	FELINE	EQUINE
Chemistry/Hematology				
<i>Note: Calculated TCO₂ is only available when measured TCO₂ is not reported.</i>				
Sodium	mmol/L	139 – 150	147 – 162	128 - 142
Potassium	mmol/L	3.4 - 4.9	2.9 - 4.2	1.9 - 4.1
Ionized Calcium	mmol/L	1.12 - 1.40	1.20 - 1.32	1.25 - 1.75
Chloride	mmol/L	106-127	112-129	100-111
Glucose	mmol/L	3.33 - 6.38	3.33 - 7.22	3.44 - 7.44
	mg/dL	60-115	60-130	62-134
Lactate	mmol/L	0.60 - 2.90	0.50 - 2.70	0.30 - 1.50
BUN	mg/dL	10-26	15-34	11-27
Urea	mmol/L	3.6-9.3	5.4-12.1	3.9-9.6
	mg/dL	22-56	32-73	23-58
Creatinine	mg/dL	0.5-1.3	1.0-2.2	0.4-2.2
	mmol/L	44-115	88.4-195	35-195
Hematocrit	%	35 – 50	24 – 40	30 - 45
Hemoglobin	g/dL	12.0 – 17.0	8.0 – 13.0	10.0 – 15.0
TCO ₂ or cTCO ₂	mmol/L	17 – 25	16 – 25	24 - 32
Anion Gap K+	mmol/L	8-25	10-27	5-15
BUN/Crea	mg/mg	0.2-400.0	0.2-400.0	0.2-400.0
Urea/Crea	mmol/mmol	0.8-1615.4	0.8-1615.4	0.8-1615.4
Blood Gases - Arterial				
pH	PH units	7.350 - 7.450	7.250 - 7.400	7.320 - 7.440
pCO ₂	mmHg	34.0 - 40.0	28.0 - 34.0	36.0 - 46.0
pO ₂	mmHg	85 – 100	90 – 110	90 - 100
cHCO ₃ ⁻	mmol/L	20.0 - 24.0	16.0 - 20.0	24.0 - 30.0
Base Excess	mmol/L	(-5) - (0)	(-5) - (+2)	(-5) - (+5)
sO ₂	%	>90	>90	>90
Blood Gases* - Venous				
pH		7.350 - 7.450	7.250 - 7.400	7.350 - 7.450
pCO ₂	mmHg	40.0 - 50.0	33 – 51	38.0 - 48.0
cHCO ₃ ^{a-}	mmol/L	15.0 - 23.0	13.0 – 25.0	25.0 – 30.0
pO ₂	mmHg	30 - 42	27.6 - 39.6	37 - 56
Base Excess	mmol/l	(-4) – (+4)	(-10.7) – (-0.7)	

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