

## REFERENCE RANGES

Our reference ranges relate to our methods in our particular lab. They are offered on all our reports. In addition the lab has reference ranges for many less common species, gleaned from our own data and other published material. Please telephone for these. Reference ranges refer to 95% of the population, there will be changes for juveniles, aged and pregnant animals and there will be slight variations between breeds and gender. As such the following are only a guide, hence the very wide range of some values in some species. Our Veterinary Clinical Pathologists will offer more precise advice when necessary in their interpretive reports.

	CANINE	FELINE	EQUINE	T. B.	BOVINE	OVINE
Albumin g/l	25-37	21-39	23-38	21-34	27-37	24-32
Total protein g/l	54-77	54-78	57-84	43-67	70-88	65-78
Globulin g/l	23-52	15-57	16-50	22-50	32-56	27-50
Urea mmol/l	1.7-7.4	6.0-10	2.5-8.3	2.8-6.1	3.5 -6.6	3.0-8.0
Creatinine µmol/l	20-110	60-170	50-155	65-145	44-165	44-150
Total bilirubin µmol/l	0-16	0-10	10-40	10-40	0-9	0-10
Calcium mmol/l	2.3-3.0	1.6-3.0	2.6-3.5	2.6-3.5	2.2-2.7	2.88-3.20
Phosphorus mmol/l	0.8-1.6	1.4-2.6	0.8-1.8	0.8-1.8	1.1-2.1	1.62-2.36
CK U/l @ 37 c	0-190	0-152	0-300	0-300	0-100	0-100
µGT U/l @ 37 c	0-27	0-27	0-34	0-55	0-20	0-27
GLDH U/l @ 37 c	0-10	0-10	0-12	0-12	0-10	0-20
LDH U/L @ 37 c	0-160	0-120	0-320	0-320	----	----
ALP U/l @ 37 c	0-50	0-40	0-200	0-200	----	----
SIP U/l @ 37 c	----	----	0-100	0-100	----	----
AST U/l @ 37 c	0-49	0-69	0-240	0-330	0-196	0-196
ALT U/l @ 37 c	0-25	0-20	0-25	0-25	0-40	----
Glucose mmol/l	2.0-5.5	4.3-6.6	2.8-5.5	3.4-5.9	2.0-3.0	2.0-3.0
Cholesterol mmol/l	3.8-7.0	1.9 – 3.9	2.3 - 3.6	2.3-3.6	1.0-3.0	1.0-2.6
Amylase U/l @ 30 c	100-900	400-1250	----	----	----	----
Lipase U/l @ 30 c	0-250	0-200	----	----	----	----
Sodium mmol/l	139-154	120-155	135-150	133-143	136-145	140-155
Potassium mmol/l	3.6-5.6	3.6-5.6	3.0-6.6	3.3-5.3	4.3-5.7	4.0-5.5
Na/k ratio	27-38	----	----	----	----	----
Chloride mmol/l	105-122	112-129	98-102	93-105	95-110	98-115
Bile acids fasting µmol/l	0-10	0-15	----	----	----	----
Bile acids post µmol/l	0-15	0-15	----	----	----	----
NEFFA µmol/l	----	----	----	----	0-400	0-400
BHB mmol/l	----	----	----	----	0.0-0.9	0.0-0.9
GSH-Px µ/ml rbc @ 37 c	----	----	39-250	39-250	39-250	39-250
Vit E µmol/l	----	----	3-20	3-20	3-18	----
Free T4 pmol/l	6.6-40	10-40	10-40	----	----	----
Total T4 nmol/l	15-40	15-40	12-31	12-31	46-115	38-79
TS H ng/ml	0.01-0.60	----	----	----	----	----

