

Test Code	Test	Units	Alpaca	Bovine	Camelid/ Llama	Canine	Caprine	Equine	Feline	Ferret	Ovine	Porcine	Rabbit	Rat
VALB	Albumin	g/dL	2.7 - 4.4	3.1 - 4.3	1.9 - 4.9	2.6 - 4.0	2.3 - 3.4	2.4 - 3.7	2.3 - 3.9	3.5 - 4.2	2.8 - 3.7	2.0 - 4.4	3.5 - 5.5	3.2 - 3.7
VALKP	Alkaline phosphatase	U/L	17 - 232	12 - 154	15 - 115	13 - 289	18 - 220	96 - 385	8 - 115	9 - 84	47 - 681	61 - 147	40 - 140	232 - 632
VALT	Alanine Amino Transferase	U/L	5-21	10 - 33	5 - 18	14 - 151	11 - 28	5-13	23 - 145	78 - 149	11 - 26	30 - 53	15 - 50	59 - 166
VAMY	Amylase	U/L	561 - 1211	11 - 21	NA	268 - 1653	10 - 73	1-5	627 - 1572	NA	5 - 40	744 - 2330	NA	545 - 847
ANGAP	Anion Gap	mmol/L	11 - 22	10 - 25	NA	17 - 28	12 - 20	10 - 24	17 - 32	NA	14 - 21	10 - 27	NA	24 - 39
VAST	Aspartate Amino Transferase	U/L	73 - 282	48 - 204	98 - 256	18-86	60 - 118	204 - 390	14 - 68	28 - 120	52 - 122	14 - 61	15 - 45	90 - 345
BHBA	Betahydroxybutyrate	mg/dL	0.4 - 0.9	1.9 - 14.8	0.3 - 1.2	0.2 - 0.8	2.3 - 4.9	1.2 - 4.4	0.3 - 1.9	NA	0.6 - 5.4	0.2 - 1.2	NA	2.2 - 5.1
VCO2	Bicarbonate	mmol/L	20 - 32	22 - 29	13 - 38	16 - 31	23 - 32	21 - 33	11 - 21	20 - 28	21 - 32	22 - 36	NA	18 - 27
VBA (FBA)	Bile acids, fasting	umol/L	NA	0.0-12.0	NA	0.0 - 12.0	NA	4.6-13.3	0.0 - 5.0	NA	NA	0.0-12.0	NA	NA
VPBA	Bile acids, post prandial (or non- fasting)	umol/L	11.0-82.0	1.9 - 14.8	NA	5.0 - 25.0	5.0-69.0	1.2 - 4.4	5.0 - 15.0	NA	3 - 86	1.0 - 31.0	NA	2.2 - 5.1
VDBIL	Bilirubin - Direct	mg/dL	0.0 - 0.0	0.0 - 0.2	NA	0.0 - 0.2	0.0-0.1	0.0 - 0.4	0.0 - 0.2	NA	0.0 - 0.0	0.0 - 0.1	NA	0.0 - 0.0
VTBILI	Bilirubin - Total	mg/dL	0.0-0.1	0.0-0.2	0.0 - 0.2	0.0 - 0.5	0.0-0.1	0.2 - 2.2	0.0-0.4	0.0 - 0.1	0.0 - 0.1	0.0-0.4	0.1 - 0.5	0.0-0.1
VBUN	Blood Urea Nitrogen	mg/dL	13 - 30	8 - 22	8 - 34	8 - 30	7 - 22	9 - 27	13 - 36	11 - 25	13 - 28	5 - 24	11 - 25	13 - 19
VCA	Calcium	mg/dL	8.5 - 10.1	7.9 - 10.5	7.8 - 10.7	8.7 - 12.0	8.2 - 10.3	10.2 - 13.4	8.1 - 11.8	8.7 - 9.4	9.4 - 11.0	8.8 - 11.2	12.5 - 15.5	9.5 - 13.9
VCL	Chloride	mmol/L	107 - 116	100 - 109	106 - 129	100-121	101 - 109	92 - 107	107 - 124	118 - 126	100 - 112	84 - 106	96 - 106	98 - 104
VCHOL	Cholesterol	mg/dL	15 - 63	112 - 331	16 - 57	98 - 300	52 - 120	59 - 125	81 - 275	119 - 201	31 - 85	53 - 103	30 - 100	50 - 92
CIALP	Corticosteriod-induced	U/L	NA	NA	NA	0 - 50	NA	NA	NA	NA	NA	NA	NA	NA
VCK	Creatine Kinase	U/L	31 - 232	50 - 271	NA	50 - 554	98 - 267	131 - 548	52 - 462	NA	47 - 273	129 - 1409	NA	113 - 692
VCREAT	Creatinine	mg/dL	0.8 - 2.0	0.3 - 0.8	0.4 - 3.1	0.4-2.0	0.4 - 0.9	0.4 - 1.9	0.6 - 2.1	0.4 - 0.9	0.5 - 0.9	0.5 - 1.6	0.9 - 1.7	0.3 - 0.5

Test Code	Test	Units	Alpaca	Bovine	Camelid/Llama	Canine	Caprine	Equine	Feline	Ferret	Ovine	Porcine	Rabbit	Rat
VFE	Iron	ug/dL	53 - 206	97 - 261	NA	46 – 214	13 - 215	98 - 213	43 - 226	NA	90 - 310	109 - 222	NA	184 - 497
VFRUC	Fructosamine (for non- diabetic animals)	umol/L	NA	NA	NA	146 – 274	NA	NA	154 - 275	NA	NA	NA	NA	NA
VGGT	Gamma Glutamyl Transferase	U/L	12 - 29	4 - 41	9 - 41	3 – 19	31 - 58	6 - 32	0-2	1 - 8	26 - 75	23 - 62	0 - 10	0 - 0
VGLDH	GLDH	U/L	NA	6-69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GLOBU	Globulin	g/dL	1.4 - 5.5	2.0 - 4.0	0.8 - 4.5	2.0 – 3.8	3.5 - 5.3	2.3 - 5.3	2.8 - 5.4	NA	2.5 - 4.5	1.6 – 4.9	NA	2.6 - 3.5
VGLU	Glucose	mg/dL	93 - 137	44 - 75	61 - 173	74 – 145	40 - 76	54 - 118	65 - 155	107 - 138	45 - 85	57 - 113	100 - 190	70 - 308
VHAPTO	Haptoglobin	mg/mL	0.3 - 1.6	0.1 - 1.7	NA	1.0 - 5.0	0.0 - 4.9	0.9 - 5.0	0.5 - 3.8	NA	0.1 - 1.8	0.0 - 1.8	NA	0.9 - 2.1
HDL	HDLChol	mg/dL	NA	NA	2-13	99-244	32-70	47-82	NA	NA	30-48	NA	NA	27-43
INSULIN	Insulin	uU/mL	NA	NA	NA	5.0 – 65.0	NA	0.5 – 10.0	NA	4.9 - 34.8	NA	NA	NA	NA
VLDH	Lactate Dehydrogenase	U/L	171 - 445	744 - 1592	NA	19 - 162	172 - 441	244 - 802	35 - 325	241 - 752	280 - 597	328 - 782	NA	364 - 1706
LDL-D	LDL-Direct	mg/dL	NA	NA	7-37	0-10	9-29	4-28	NA	NA	6-27	NA	NA	8-21
VLIP	Lipase	U/L	2-130	1 - 10	NA	109 - 750	11 - 42	10 - 32	15 - 246	NA	10 - 38	2-12	NA	14 - 41
VMG	Magnesium	mg/dL	1.8 - 2.5	1.8 – 2.9	NA	1.6 - 2.3	2.1 - 3.2	1.5 - 2.4	1.7 - 2.6	NA	1.9 - 2.7	1.9 - 3.1	NA	3.8 - 5.5
VPHOS	Phosphorus	mg/dL	2.8 - 9.0	4.1 - 8.3	1.5 - 8.9	2.5 – 7.9	3.8 - 9.6	1.4 - 5.9	2.7 - 7.3	5.2 - 7.6	4.5 - 9.2	5.3 – 11.1	2.0 - 9.0	5.6 - 16.8
VK	Potassium	mmol/L	4.0 - 5.8	3.7 – 5.6	3.7 - 5.8	3.4 – 5.6	4.4 - 6.5	3.2 - 5.5	3.4 - 5.4	4.3 - 5.3	4.1 - 5.9	3.1 – 6.7	3.5 - 6.0	3.8 - 5.6
SDH	Sorbitol Dehydrogenase	U/L	1.5 - 16.0	6.6 - 37.8	NA	0.7 - 20.0	19.7 - 71.9	3.3 - 15.5	1.8 - 22.1	NA	10.2 - 54.3	4.2 – 24.3	NA	27.3 - 118.5
VTSH	TSH	ng/mL	NA	NA	NA	0.03-0.38	NA	NA	NA	NA	NA	NA	NA	NA
VFT4M	Free T4- MEIA	ng/dL	NA	NA	NA	0.42-2.19	NA	0.35-1.25	0.63-1.92	NA	NA	NA	NA	NA
VNA	Sodium	mmol/L	145 - 153	135 - 145	145 - 166	141 – 159	139 - 147	130 - 140	144 - 157	146 - 160	139 - 150	123- 144	133 - 150	146 - 151
VT4	Total T4	ug/dL	5.5 - 12.0	1.5 - 5.3	5.5 - 12.0	0.4 - 3.7	4.1 - 8.9	0.5 - 3.1	0.6 - 3.6	0.7 - 8.3	4.2 - 9.6	2.4 - 7.1	NA	0.6 - 3.9
VTP	Total protein	g/dL	4.8 - 8.7	5.6 - 7.8	3.3 - 8.8	5.0 – 8.3	6.3 - 8.2	5.2 – 8.2	5.7 - 8.6	6.2 - 7.1	5.7 - 7.7	4.0 - 8.4	5.2 - 7.5	5.8 - 7.1
VTRIG	Triglycerides	mg/dL	11 - 55	4 - 26	6 - 41	36 - 240	11 - 66	10 – 61	24 - 169	10 - 32	10 - 32	34 - 165	30 - 180	101 - 369

Test Code	Test	Units	Alpaca	Bovine	Camelid / Llama	Canine	Caprine	Equine	Feline	Ferret	Ov ine	Porcine	Rabbit	Rat
VUA	Uric acid	mg/dL	0.0 - 0.1	0.5 - 1.6	NA	0.2 - 0.7	0.0 - 0.2	0.1 - 0.6	0.0-0.4	0.8 - 3.1	0.0 - 0.2	0.0 - 0.2	NA	3.7 - 9.1

FM, SA, BB 12/06/18

Hematology

Test	Units	Alpaca	Bovine	Camelid / Llama	Canine	Caprine	Equine	Feline	Ferret*	Ovine	Porcine	Rabbit*	Rat*
Red Blood count (RBC)	x 10 ⁶ /uL	8.6 - 15.9	5.0 – 10.0	9.3 - 17.1	4.5 – 8.5	12.2 - 20.0	5.6 – 12.1	5.8 – 11.0	7.3 - 12.2	8.64 - 13.27	6.4 - 8.0	5.0 - 7.2	7.0 - 9.0
Hemoglobin	g/dL	8.6 - 16.5	8.0 – 15.0	10.6 - 17.3	10.5 – 20.1	7.04 - 12.0	9.8 – 17.1	8.6 – 16.0	12.0 - 17.4	9.3 – 14.3	12.9 - 15.9	10.5 - 15.0	13.7 - 16.8
Hematocrit	%	21.1 - 41.8	24.0 – 46.0	25.8 - 45.6	33.0 – 58.7	19.2 - 33.0	27.0 – 47.5	28.0 – 47.0	36 - 61	30.1 – 44.6	38.3 - 47.8	32 - 45	37.9 - 49.9
Mean corp. volume (MCV)	fL	21.6 - 29.9	40.0 – 60.0	23.3 - 31.0	63.0 – 78.3	13.2 - 19.7	33.5 – 55.8	37.7 – 50.0	42.6 - 51.0	27.9 – 40.6	55.1 - 65.1	55 - 70	49.9 - 58.3
Mean corp. HGB (MCH)	pg	8.6 - 11.7	11.0 – 17.0	9.2 - 12.1	21.0 – 27.0	5.1 - 6.7	12.2 – 19.3	12.3 – 17.2	13.7 - 16.0	9.6 – 12.0	18.2 - 22.0	19 - 23	17.8 - 29.0
Mean corp. HGB conc. (MCHC)	g/dL	38.1 - 41.1	30.0 – 36.0	36.3 - 41.9	30.1 – 41.9	33.1 - 40.0	32.4 – 37.4	28.9-42.2	30.3 - 34.9	27.7 – 35.7	31.4 - 35.1	30 - 35	33.2 - 37.9
Red cell dis. Width (RDW)	%	18.8 - 31.4	14.0 – 31.0	20.3 - 29.6	12.9 – 21.0	24.9 - 41.2	20.6 – 29.0	17.2 – 31.3	7.3 - 12.2	23.9 – 33.0	14.2 - 17.7	**	10.5 - 14.9
Platelet count	x 10 ³ /uL	269 - 912	230 – 690	185 - 1007	140 – 540	300 - 600	95 – 385	160 – 660	297 - 910	78 - 1309	157 - 618	300 - 750	680 - 1280
White blood count (WBC)	x 10 ³ /uL	4.7 - 28.6	4.0 – 12.0	5.9 - 18.9	4.0 – 18.2	9.5 - 30.5	4.1 – 14.3	3.7 – 20.5	4.4 - 19.1	5.0 – 10.2	10.9 - 21.8	4.0 - 13.0	1.1 - 7.5
Segmented neutrophil absolute #	x 10 ³ /uL	1.3 - 12.0	0.6 – 4.0	2.60 - 13.10	2.5 – 15.7	4.2 - 17.5	1.7 – 10.4	1.3 – 15.7	1.3 - 3.7	0.8 - 3.6	3.2 - 13.1	1.0 - 6.0	0.2 - 1.5
Band neutrophil absolute #	x 10 ³ /uL	0.0 - 0.1	0.0 – 0.1	0.0 - 0.05	0.0 – 0.2	0.0 - 0.1	0.0 – 0.1	0.0 – 0.5	0.0 – 0.1	0.0 - 0.1	0.0 - 0.1	0.0 - 0.1	0.0 - 0.1
Lymphocyte absolute #	x 10 ³ /uL	0.6 - 11.0	2.5 – 7.5	0.73 - 6.9	0.3 – 3.9	1.6 - 9.6	0.6 – 6.7	1.0 – 7.9	1.5 - 6.7	0.8 - 7.4	3.3 - 11.5	2.0 - 9.0	0.8 - 5.7
Monocyte absolute #	x 10 ³ /uL	0.0 - 4.7	0.0 – 0.8	0.00 - 0.61	0.0 – 1.4	0.1 - 1.5	0.0 – 0.9	0.0 – 1.0	0.1 - 0.8	0.0 - 0.4	0.0 - 1.9	0.0 - 0.5	0.0 - 0.2
Eosinophil absolute #	x 10 ³ /uL	0.3 - 6.4	0.0 – 2.4	0.00 - 4.32	0.0 – 1.3	0.0 - 3.5	0.0 – 0.5	0.1 – 2.0	0.1 - 0.9	0.0 - 1.1	0.0 - 1.5	0.0 - 0.4	0.0 - 0.2
Basophil absolute #	x 10 ³ /uL	0 - 3.6	0.0 – 0.2	0.00 - 0.27	0.0 – 0.1	0.0 - 0.6	0.0 – 0.2	0.0 – 0.1	0.0 - 0.1	0.0 - 0.4	0.0 - 0.2	0.0 - 1.0	0.0 - 0.3
Reference:									Biology and Disease of the Ferret by James G. Fox			Animal Models in Toxicology by GAD and Chenglis. ** No reference interval available for this test	Schalm's Veterinary Hematology, 6th edition, by Douglas J. Weiss & K. Jane Wardrop

Coagulation

Test Code	Test	Units	Bovine	Canine	Equine	Feline
VATIII	Antithrombin III	%	10 - 1000	75 - 108	10 - 1000	87 - 143
VAPTT	APTT (Activated Partial Thromboplastin Time)	seconds	17.1 – 38.9	9.7 – 17.8	32.2 – 51.4	9.6 – 16.1
VFIB	Fibrinogen (Quantitative)	mg/dL	200 - 516	113 - 523	123 - 415	66 - 339
VFIBSQ	Fibrinogen, Semi-quantitative	mg/dL	300 - 700	100 - 500	100 - 400	50 - 300
VPT	PT (Prothrombin Time)	seconds	18.2 – 25.3	7.1 – 11.3	10.8 – 13.1	9.4 – 14.5

Other -Chemistry

Test Code	Test	Units	Avian-Macaw	Avian-Parrots, African Grey	Chicken	Ferret-Fitch	Rabbit-Female New Zealand White	Turkey	White Tailed Deer
VALB	Albumin	gm/dL	NA	NA	NA	3.5 – 4.2	3.5 – 5.5	1.1 - 1.3	1.8 - 3.3
VALKP	Alkaline phosphatase	U/L	22 - 233	NA	734 - 3416	9 – 84	40 - 140	2127 - 4738	NA
VALT	Alanaine Amino Transferase	U/L	NA	NA	< 5	78 - 149	15 - 50	< 5	NA
VAMY	Am ylase	U/L	NA	NA	NA	NA	NA	NA	NA
ANGAP	Anion Gap		12.7 – 19.6	24.2 - 37	NA	NA	NA	0.4 - 0.7	11994
VAST	Aspartate Amino Transferase	U/L	70 – 316	78 - 149	149 - 201	28 - 120	15 - 45	170 - 248	56 - 202
BHBA	Betah ydroxy-butyrate	mg/dL	NA	NA	NA	NA	NA	NA	NA
VCO2	Bicarbonate	mmol/L	23 - 27	8 - 14	NA	20 - 28	NA	NA	20 - 35
VBA (FBA)	Bile acids, fasting	umol/L	NA	NA	NA	NA	NA	NA	NA
VPBA	Bile acids, post prandial (or non- fasting)	umol/L	NA	NA	NA	NA	NA	NA	NA
VDBIL	Bilirubin - Direct	mg/dL	NA	NA	NA	NA	NA	NA	NA
VTBILI	Bilirubin - Total	mg/dL	NA	NA	NA	0.0 – 0.1	0.1 – 0.5	NA	0.1 - 0.5
VBUN	Blood Urea Nitrogen	mg/dL	NA	NA	< 5	11 - 25	11 - 25	< 5	23 - 53
VCA	Calcium	mg/dL	8.9 – 11.7	8.4 – 10.4	10.3 - 11.4	8.7 – 9.4	12.5 – 15.5	10.1 - 11.1	8.1 - 9.8

Test Code	Test	Units	Avian-Macaws	Avian-Parrots, African Grey	Chicken	Ferret-Fitch	Rabbit-Female New Zealand White	Turkey	White Tailed Deer
VCL	Chloride	mmol/L	113 - 120	118 - 127	108 - 113	118 - 126	96 - 106	107 - 115	92 - 107
VCHOL	Cholesterol	mg/dL	102 - 386	179 - 417	112 - 166	119 - 201	30 - 100	58 - 95	38 - 99
CIALP	Corticosteriod-induced	U/L	NA	NA	NA	NA	NA	NA	NA
VCK	Creatine Kinase	U/L	NA	NA	1003 - 2318	NA	NA	399 - 1615	70 - 593
VCREAT	Creatinine	mg/dL	NA	NA	NA	0.4 - 0.9	0.9 - 1.7	NA	0.4 - 1.5
VFE	Iron	ug/dL	NA	NA	NA	3.5 - 4.2	3.5 - 5.5	NA	NA
VFRUC	Fructosamine (for non-diabetic animals)	umol/L	NA	NA	NA	9 - 84	NA	NA	NA
VGGT	Gamma Glutamyl Transferase	U/L	2 - 21	NA	15 - 22	1 - 8	0 - 10	NA	21 - 143
GLOB	Globulin	g/d L	NA	NA	NA	NA	NA	1.8 - 2.4	2.3 - 4.9
VGLDH	GLDH	U/L	NA	NA	2 - 10	NA	NA	NA	NA
VGLU	Glucose	mg/dL	136 - 464	185 - 294	202 - 262	NA	100 - 190	261 - 297	72 - 223
VHAPTO	Haptoglobin	mg/mL	NA	NA	NA	NA	NA	NA	NA
VHDL	HDL	mg/dL	NA	NA	73.96 - 114.85	NA	NA	NA	NA
INSULIN	Insulin	uU/mL	NA	NA	NA	4.9 - 34.8	NA	NA	NA
VLACT	Lactate	mmol/L	NA	NA	NA	NA	NA	NA	NA
VLDH	Lactate Dehydrogenase	U/L	19 - 178	NA	440 - 1224	241 - 752	NA	336 - 727	NA

Test Code	Test	Units	Avian-Macaws	Avian-Parrots, African Grey	Chicken	Ferret-Fitch	Rabbit-Female New Zealand White	Turkey	White Tailed Deer
VLDL	LDL	mg/dL	NA	NA	16.3 - 42.1	NA	NA	NA	NA
VLIP	Lactate	U/L	NA	NA	NA	NA	NA	NA	NA
VMG	Magnesium	mg/dL	NA	NA	2.0 - 2.3	NA	NA	1.7 - 2.1	NA
VPHOS	Phosphorus	mg/dL	2.1 – 11.2	3.2 – 5.4	6.7 - 8.6	5.2 – 7.6	2.0 – 9.0	6.2 - 8.1	3.1 - 11.5
VK	Potassium	mmol/L	2.1 – 5.0	2.9 – 4.6	5.0 - 8.0	4.3 – 5.3	3.5 – 6.0	3.6 - 5.3	3.0 - 12.9
VNA	Sodium	mmol/L	144 - 163	156 - 164	144 - 149	146 - 160	133 - 150	144 - 151	132 - 148
NA/K	Sodium/Potassium Ratio		NA	NA	NA	NA	NA	27 - 41	NA
VSDH	SDH	U/L	NA	NA	NA	NA	NA	NA	10.4 - 79.4
VT3A	T3-A	ng/dL	NA	NA	NA	0.5 – 0.8	NA	NA	NA
VT4	Total T4	ug/dL	NA	NA	NA	0.7 – 8.3	NA	NA	NA
VTP	Total protein	gm/dL	3.3 – 4.9	3.1 – 4.4	2.8 - 3.4	6.2 – 7.1	5.2 – 7.5	2.9 - 3.6	4.7 - 7.7
VTR IG	Triglycerides	mg/dL	NA	NA	NA	10 - 32	30 - 180	NA	NA
VUA	Uric acid	mg/dL	2.9 – 10.4	3.4 – 10.8	4.9 - 9.2	0.8 – 3.1	NA	2.8 - 8.6	NA
Reference:			Marshfield Labs – does not reflect AU chemistry platform	Marshfield Labs – does not reflect AU chemistry platform		Biology and Disease of the Ferret by James G. Fox p. 164 – 165.	Animal Models in Toxicology by GAD and Chengelis p. 800		

Other - Hematology

Test Code	Test	Chicken	Ferret-Fitch	Rabbit-Female New Zealand White	Turkey	White Tailed Deer
Red Blood count (RBC)	x 10 ⁶ /uL	2.42 - 2.99	7.30 – 12.8	5.0 – 7.2	2.32 - 2.73	9.08 - 15.56
Hemoglobin	g/dL	9.8 - 12.1	12.0 – 17.4	10.5 – 15.0	9.8 - 11.5	9.0 - 14.5
Hematocrit	%	25.9 - 32.6	36 - 61	32 - 45	29.6 - 34.7	26.1 - 41.1
Mean corp. volume (MCV)	fL	100.3 - 115.7	42.6 – 51.0	55 - 70	122 - 133	22.3 - 34.7
Mean corp. HGB (MCH)	pg	38.2 - 43.0	13.7 – 16.0	19 - 23	39.4 - 44.8	8.15 - 11.17
Mean corp. HGB conc. (MCHC)	g/dL	36.3 - 38.9	30.3 – 34.9	30 - 35	31.0 - 35.0	31.7 - 38.6
Red cell dis. Width (RDW)	%	8.0 - 10.2	7.3 – 12.2	NA	12.8 - 17.0	24.2 - 40.4
Platelet count	x 10 ³ /uL	NA	297 - 910	300 – 750	NA	139 - 1148
White blood count (WBC)	x 10 ³ /uL	5.5 - 24.2	4.4 – 19.1	4.0 – 13.0	10.6 - 28.3	2.5 - 9.6
Segmented neutrophil absolute #	x 10 ³ /uL	NA	1.3 – 3.7	1.0 – 6.0	NA	0.95 - 7.59
Band neutrophil absolute #	x 10 ³ /uL	NA	NA	NA	NA	NA
Lymphocyte absolute #	x 10 ³ /uL	0.21 - 14.17	1.5 – 6.7	2.0 – 9.0	2.15 - 13.00	0.64 - 2.33
Monocyte absolute #	x 10 ³ /uL	0.00 - 2.03	0.1 – 0.8	0.0 - 0.5	0.04 - 2.74	0.00 - 0.33
Eosinophil absolute #	x 10 ³ /uL	0.00 - 1.42	0.1 – 0.9	0.0 – 0.4	0.00 - 0.53	0.00 - 1.73

Test Code	Test	Chicken	Ferret-Fitch	Rabbit-Female New Zealand White	Turkey	White Tailed Deer
Basophil absolute #	x 10 ³ /uL	0.03 - 1.73	0.0 – 0.1	0.0 - 1.0	0.00 - 2.21	0.00 - 0.28
Activated Lymphocyte absolute #	x 10 ³ /uL	0.00 - 0.18	NA	NA	0.00 - 0.78	NA
Segmented Heterophil absolute #	x 10 ³ /uL	2.99 - 10.10	NA	NA	7.01 - 17.86	NA
Thrombocyte estimates	x 10 ³ /uL	20 - 80	NA	NA	20 - 80	NA
Reference:			Biology and Disease of the Ferret by James G. Fox p. 164 – 165.	Animal Models in Toxicology by GAD and Chengelis p. 800		

Urinalysis

Test	Bovine	Canine	Equine	Feline
pH	7.0 – 8.5	5.2 – 6.8	7.0 – 8.5	6.0 – 7.0
Specific Gravity	1.005 – 1.040	1.018 – 1.045	1.020 – 1.050	1.020 – 1.060
Protein	Negative	Negative	Negative	Negative
Glucose	Negative	Negative	Negative	Negative
Ketones	Negative	Negative	Negative	Negative
Urobilinogen	Normal	Normal	Normal	Normal
Bilirubin	Negative	Negative, 1+	Negative	Negative
Hemoglobin	Negative	Negative	Negative	Negative
Casts	None Seen	None Seen	None Seen	None Seen
WBC	0 - 2	0 - 2	0 - 2	0 - 2
RBC	0 - 2	0 - 2	0 - 2	0 - 2
Epithelial Cells	0 - 2	0 - 2	0 - 2	0 - 2
Mucus	None Seen	None Seen	None Seen	None Seen
Bacteria	None Seen	None Seen	None Seen	None Seen
Crystals	None Seen	None Seen	None Seen	None Seen
<p>Reference: While some variables commonly evaluated during urinalysis have distinct “normal” and “abnormal” values, others must be interpreted in light of clinical impression and exam findings (for example, specific gravity must be interpreted in conjunction with hydration status and serum markers of azotemia). Guidelines for interpretation of urinalysis in domestic animals have evolved through a combination of clinical experience and investigative reports and studies. Ranges are based from references below:</p> <p>Brobst, D., 1989, Urinalysis and associated laboratory procedures. Vet Clin North Am Small Anim Pract 19, 929-949.</p> <p>Thrall, M.A., 2004, Veterinary hematology and clinical chemistry. Lippincott Williams & Wilkins, Philadelphia, x, 518 p. pp.</p>				