

<i>WSU CBC</i>		<i>CAT</i>	<i>KITTEN</i>	<i>DOG</i>	<i>PUPPY</i>
WBC	x10 ³ /μL	4.0-14.0	11 – 26	4.5 - 16.0	
Band		< 0.1		< 0.3	
Neutrophil		2.0 – 12.0		2.8 – 13.4	
Lymphocyte		1.5 – 6.0		0.9 – 4.0	
Monocyte		< 0.8		< 1.3	
Eosinophil		< 0.5		< 1.2	
Basophil		<0.1		<0.1	
RBCs	x10 ⁶ /μL	6.0 – 10.0	4.5 – 6.9	5.2 – 8.4	
Hgb	g/dL	9.5 – 15.5	6 – 15	12 – 20	
PCV	%	30 – 46	23 - 47	36 – 56	26-55
MCV	fL	40 – 54		62 – 73	
MCHC	g/dL	31 – 35		35 – 38	
MCH	pg	12 – 16		22 – 26	
RDW	%	24 – 27		12 – 15	
Platelets	x10 ³ /μL	200-500		160 – 500	
MPV	μ ³	12-17		7.4 – 13.0	
Reticulocytes	x10 ³ /μL	< 50		< 100	
COAGULATION					
OSPTT	sec	8.7-12.9		6.4 – 8.2	
APTT	sec	11.0-16.7		8.4 – 14.8	
VENOUS GAS (hep syringe)					
pH		7.24 – 7.40		7.35 – 7.50	
pCO₂	mmHg	29 - 41		30 – 52	
pO₂	mmHg			31 – 54	
HCO₃	mEq/L	17 - 24		19 – 30	
BE	mEq/L			-1.7 – +3.7	
TCO2	mEq/L			20-32	
Ca, ionized,	mmol/L			1.29-1.44	
Mg, ionized,	mmol/L			0.35-0.60	
Lactate	mmol/L			0.4-2.8	

WSU CBC		HORSE	COW	CALF	LLAMA	GOAT	SHEEP
WBC	x10 ³ /μL	5.5 – 10.5	4.0 - 12.0	5 - 17	8 - 21	4.0 – 13.0	4.0 – 12.0
Band		< 0.1	< 0.1	< 0.1	< 0.2	rare	rare
Neutrophil		3.0 – 7.0	0.6 – 4.0	1.0 – 5.4	4.7 – 14.9	1.2 – 7.2	0.7 – 6.0
Lymphocyte		1.5 – 4.0	2.5 – 7.5	2.8 – 10.8	0.7 – 4.8	2.0 – 9.0	2.0 – 9.0
Monocyte		< 1.0	< 0.8	0.2 – 1.3	< 1.1	< 0.6	< 0.8
Eosinophil		< 1.0	< 2.4	< 0.7	0.7 – 4.9	< 0.7	< 1.0
Basophil		< 0.2	< 0.2	< 0.1	< 0.3	< 0.1	< 0.3
RBC	x10 ⁶ /μL	6.5 – 10.5	5.0 – 10.0	8 - 12	10.5 – 17.2	8.0 – 18.0	8.0 – 16.0
Hgb	g/dL	11.0 – 16.0	8 - 15	8 - 14	11.9 – 19.4	8 - 12	8 – 16
PCV	%	30 – 45	24 - 46	28 - 44	27 - 45	22 - 38	24 – 50
Fibrinoge	mg/dL	100 – 400	300 - 700	100 - 200	100 - 400	100 - 400	100 – 500
MCV	fl	40 – 49	40 - 60		22-28	16 - 25	23 - 48
MCHC	g/dL	35-38	30 - 36		41-48	30 - 36	31 – 38
MCH	pg	15 – 18					
Platelets	x10 ³ /μL	102 – 300	100-700		200-800	300 - 600	250 – 750
Reticulocytes	x10 ³ /μL	none					
RDW	%	17-21					
COAGULATION							
OSPTT	sec	8.7-10.7					
APTT	sec	35.1-44.7					
VENOUS GAS (hep syringe)							
pH		7.40 – 7.48					
pCO₂	mmHg	39.1 – 46.8	35 – 44				
pO₂	mmHg	47.8– 61.9					
HCO₃	mEq/L	26 – 32					
BE	mEq/L	+2.5 – +8.1					
O₂ Saturation	%	82-92					
TCO₂	mEq/L	28-34					
Ca, ionized,	mmol/L	1.60-1.90					
Mg, ionized,	mmol/L	0.50-0.65					
Lactate	mmol/L	0.3-1.05					

WSU Chemistry Profile Reference Intervals (page 1of 2)

		CANINE>1	K9-2-11M	FELINE>1	FEL1-11	EQUINE	EQ<2M	LLAMA
Albumin	g/dL	2.9-3.8	2.5-4.0	2.8-3.9	2.4-4.0	2.8-4.1	2.2-3.3	2.8-3.7
ALP	U/L	04-113	25-225	00-58	40-195	75-245	850-3600	35-210
Amylase	U/L	206-1250	340-1320	735-1925	500-1550	0-50		
bile acids	μmol/L	0-15		0-12		0-10		
Tbili	mg/dL	0-0.4	0-0.4	0-0.5	0-0.5	0.6- 2.9	0.6 -4.9	0-0.36
BhB	μmol/L	0-0.32		0-0.21		0-0.33		
BUN	mg/dL	9.0-26.0	5.6-29.4	14-35	14-38.9	9.8-26.6	8.4-39.4	13.7-31.9
Calcium	mg/dL	8.96-11.32	9.36-12.52	9-11.96	9.5-11.6	10.68-14.08	9.4-13.4	7.2-10.2
cholesterol	mg/dL	134-359	116-386	75-293	85-210	54-120	106-544	15-88
TCO2	mmol/L	15-26	16.0-23	12.0-24	12.0-23	22-34	20-32	17.0-34
Chloride	mEq/L	112-119	105-116	114-125	113-123	96-106	94-115	104-122
Cardiac trop	ng/mL	0-0.2		0-0.2		0-0.2		
creatinine	mg/dL	0.77-1.59	.58-1.55	.93-2.04	.9-1.5	.84-1.87	1.05-3.61	1.19-2.71
CK	U/L	0-314	25-485	0-368	0-800	30-357	30-1100	10.0-95
csfglu	mg/dL	59-74		68-85		49-65		
csfprotein	mg/dL	12.0-30		15-30		30-48		
GGT	U/L	2.0-20	4.0-16	0-12	2.0-11	14-40	20-98	15-50
globulin	g/dL	2.3-4.2	1.2-3.0	2.7-5.1	2.7-4.7	1.8-4.1	1.5-4.6	2.0-3.2
glucose	mg/dL	66-123	60-135	70-140	61-135	47-110	119-168	72-153
Lactate	mmol/L	0.2-4		0.5-4.0		1.0-2.6		
lipase	U/L	40-560	15-600	0-205	44-200			
Magnesium	mg/dL	1.53-2.65	1.34-2.31	1.89-2.3	1.82-2.50	1.34-2.39	1.02-4.08	
Phosphorus	mg/dL	2.23-6.44	3.56-10.8	3.31-6.13	6.13-10.4	2.17-4.7	3.56-7.06	2-.6.97
potassium	mEq/L	3.7-5.3	3.8-5.7	3.6-5.6	3.8-6.1	2.4-5.6	3.6-5.6	3.7-6.1
AST	U/L	8.0-56	4.0-63	7.0-45	11.0-36	170-435	260-600	80-450
ALT	U/L	0-100	0.0-122	17-90	0.0-195		0.0-69	0.0-21
Sodium	mEq/L	149-158	139-150	143-155	145-155	132-141	128-151	144-156
SDH	U/L	3.0-15	2.4-17	2.8-12.6	0.0-11	4.0-17	0.6-17.0	
T.Protein	mg/dL	5.5-7.5	4.4-6.8	6.2-8.5	5.5-7.6	5.6-7.5	4.1-8.0	4.9-7.5
Calc osm		278-306	276-299	285-314	286-305	263-280	285-313	
A/G ratio		0.6-2.3	0.7-2.6	0.5-1.3	0.5-1.4	0.6-1.7	0.6-1.2	0.4-1.4
Anion gap	mEq/L	10-22.0	10.0-22	12.0-26	12.0-25	5.0-18	8.0-18	5.0-17
Triglyceride	mg/dL	36-204	36-161	21-71	27-197	8.0-51		
Fructosamine	μmol/L	160-408		210-418				
NEFA	mmol/L							
Iron	μg/dL	89-240		73-156		95-207		
TIBC	μg/dL	262-480		218-430		284-380		
iron % sat	%	20-39		20-33		25-38		
phenobarb	μg/mL	15-35		15-36				

WSU Chemistry Profile Reference Intervals (page 2 of 2)

		BOVINE	BOVINE-M	BOVINE-F	DONKEY	GOAT	SHEEP	PIG
Albumin	g/dL	2.9-4.1	2.9-3.9	2.9-4.1	2.4-3.7	2.5-3.5	3.0-4.1	1.9-3.2
ALP	U/L	30-200	40-430	30-200	110-640	60-335	30-340	180-460
Amylase	U/L							
bile acids	μmol/L							
Tbili	mg/dL	0-0.7	0-0.7	0-0.7	0-0.6	0-0.5	0-0.64	0-0.35
BhB	μmol/L	0.18-0.84	0.28-0.5	0.18-0.84			0.16-0.50	
BUN	mg/dL	7-19.0	3.0-14.0	7.3-19.6	11.2-35.3	9.8-19.6	8.4-40	9.8-30
Calcium	mg/dL	8.36-10.8	8.36-10.72	8.36-10.8	9.88-13	8.96-11.92	8.76-12.04	6.92-11.32
cholesterol	mg/dL	62-112	62-112	69-120	46-162	77-120	48-73	35-52
TCO2	mmol/L	18-34	15-34	18-34	18-34	18-32	15-34	18-26
Chloride	mEq/L	94-109	94-109	94-109	95-109	101-115	100-113	94-110
Cardiac trop	ng/mL							
creatinine	mg/dL	.770-1.39	1.78-2.48	.77-1.39	.49-1.4	.85-1.76	1.19-1.75	0.85-2.31
CK	U/L	30-360	35-210	30-360	0-185	35-185	35-490	0-125
csfglu	mg/dL	34-69				49-85	49-85	45-88
csfprotein	mg/dL	20-33				12-30.0	30-42	24-35
GGT	U/L	12.0-80	15-60	12.0-80	15-60	8.0-40	25-100	8.0-40
globulin	g/dL	2.5-4.9	2.9-5.0	2.5-4.9	2.5-5.3	2.7-4.1	2.0-4.9	3.5-5.4
glucose	mg/dL	40-80	40-86	41-80	40-126		36-110	8-150
Lactate	mmol/L	.5-2.0					0.9-1.2	
lipase	U/L							
Magnesium	mg/dL	1.55-3.03	1.4-2.7	1.6-3.04	1.6-3.28	2.67-3.52	1.77-3.04	
Phosphorus	mg/dL	3.6-8.14	3.41-6.66	3.6-8.14	1.8-6.8	3.4-8.9	3.19-8.11	.11-8.83
potassium	mEq/L	3.7-5.8	4-5.8	3.7-5.8	3.0-5.4	3.5-6.5	3.7-6.0	4-6.7
AST	U/L	50-320	80-250	50-320	250-700	100-450	70-210	30-100
ALT	U/L				0.0-115			
Sodium	mEq/L	133-148	138-145	133-148	132-148	140-153	134-153	135-150
SDH	U/L	0.0-24.0				14.0-30	6.0-60	
T.Protein	g/dL	5.8-8.3	6.5-8.1	5.8-8.3	5.7-8.3	6.1-7.1	5.8-8.3	7.0-8.5
Calc osm		270-300	273-298	270-300	270-305	270-300	272-310	
A/G ratio		0.5-1.2	0.5-1.2	0.5-1.2		0.4-1.3	0.5-1.3	0.4-1.4
Anion gap	mEq/L	12.0-28	10.0-20	12.0-28	6.0-18	5.0-20	8.0-21	
Triglyceride	mg/dL	22-71	17-50	22-71			13-76	
Fructosamine	μmol/L							
NEFA	mmol/L	0-0.61	0.2-0.58	0-0.61				
Iron	μg/dL	56-162					106-218	
TIBC	μg/dL	156-301					145-357	
iron % sat	%	30-45						
phenobarb	μg/mL							

