

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: TATTOO

Sex: Female Acc. #: 102705
Age: 29Y 7M 11D Birth: 9.Jan.1978

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2722 Kg on 1.Jun.1995
Manual restraint used.

Date of Collection: 26.Oct.2005
Time of Collection: :
Collected by: SM
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Refrigerated (>48 hours)
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 28.Oct.2005
Time of Analysis: 6:17
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	8.0	*10 ³ /UL
RED BLOOD CELL COUNT	3.0	*10 ⁶ /UL
HEMOGLOBIN	13.8	GM/DL
HEMATOCRIT	40	%
MCV	133	fL
MCH	46.0	uug
MCHC	34.5	gm/dL
SEGMENTED NEUTROPHILS	36 (2.880)	% (*10 ³ /UL)
LYMPHOCYTES	57 (4.560)	% (*10 ³ /UL)
MONOCYTES	6 (0.480)	% (*10 ³ /UL)
EOSINOPHILS	1 (0.080)	% (*10 ³ /UL)
BASOPHILS	0	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQU	
PLATELET COUNT	270	*10 ³ /UL
ABSOLUTE BASOPHILS	0	/UL
ABSOLUTE EOSINOPHILS	80	\UL
ABSOLUTE LYMPHOCYTES	4560	/UL
ABSOLUTE MONOCYTES	480	/UL
ABSOLUTE SEGS	2880	/UL
FIBRINOGEN	200	MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.0	UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	35	%
MEAN CORPUSCULAR VOLUME	133	U(3)

Comments >>

RBC morph: normal

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

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LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 102705
South African bush elephant         Age: 29Y 7M 11D      Birth: 9.Jan.1978
Name: TATTOO
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Collection Information >>

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Activity: Active
Weight: 2722 Kg on 1.Jun.1995
Manual restraint used.

Date of Collection: 26.Oct.2005
Time of Collection: :
Collected by: SM
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Refrigerated (>48 hours)
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 28.Oct.2005
Time of Analysis: 6:17
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	80	MG/DL
BLOOD UREA NITROGEN	8	MG/DL
CREATININE	1.5	MG/DL
BUN/creatinine ratio	5.33	
CALCIUM	> 11.6	MG/DL
PHOSPHORUS	5.1	MG/DL
calcium/phosphorus ratio	2.27	
SODIUM	>> 142	MEQ/L
POTASSIUM	4.9	MEQ/L
sodium/potassium ratio	29.0	
CHLORIDE	> 93	MEQ/L
CHOLESTEROL	> 87	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.2	GM/DL
ALBUMIN (COLORIMETRY)	3.2	GM/DL
GLOBULIN (COLORIMETRY)	> 5.0	GM/DL
albumin/globulin ratio	0.640	
ASPARTATE AMINOTRANSFERASE	< 11	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	105	IU/L
LACTATE DEHYDROGENASE	< 304	IU/L
CREATINE PHOSPHOKINASE	133	IU/L
ALBUMIN GLOBULIN RATIO	0.6	GM/DL
BUN/CREATININE RATIO	5	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L
SODIUM/POTASSIUM RATIO	29	RATIO

Comments >>

Mild increase in globulin secondary to low grade infection. Increased cholesterol secondary to diet. Mild increase in NaCl compatible with dehydration and slight increase in HCT for Tattoo. WKS.

ELB

Kansas City Zoo
 Swope Park
 Kansas City, MO 64132
 Tel: 816-513-5700
 Fax: 816-513-4667

Client # 97779
 Chart # N
162705

Accession No. KCBC00531041	Doctor SUEDMEYER	Owner ELEPHANT	Pet Name TATTOO	Received 10/27/2005
Species Other	Breed	Sex F	Pet Age 27Y	Reported 10/28/2005 06:17 AM

Test Requested	Results	Reference Range	Units
VET SCREEN (EQUINE)			
AST (SGOT)	11 ✓		IU/L
Total Bilirubin	0.1 ✓		mg/dL
Alkaline Phosphatase	105 ✓		IU/L
GGT	9 ✓		IU/L
Total Protein	8.2 ✓		g/dL
Albumin	3.2 ✓		g/dL
Globulin	5.0 ↑		g/dL
A/G Ratio	0.6 ✓		
Cholesterol	87 ↑		mg/dL
BUN	8 ✓		mg/dL
Creatinine	1.5 ✓		mg/dL
BUN/Creatinine Ratio	5 ✓		
Phosphorus	5.1 ✓		mg/dL
Calcium	11.6 ✓		mg/dL
Glucose	80 ✓		mg/dL
Sodium	142 ↑		mEq/L
Potassium	4.9 ✓		mEq/L
Na/K Ratio	29 ✓		
Chloride	93 ↑		mEq/L
CPK	133 ✓		IU/L
LDH	304 ✓		IU/L
COMPLETE BLOOD COUNT			
WBC	8.0 ✓		10 ³ /μL
RBC	3.0 ✓		10 ⁶ /μL
HGB	13.8 ✓		g/dL
HCT	40 ✓		%
MCV			fL
133' MCV			
MCH	46.0		pg
MCHC	35		%
Comment			
RBC MORPHOLOGY	NORMAL		
Differential	Absolute	%	
Neutrophils	2880	36	1/μL
Lymphocytes	4560	57	1/μL
Monocytes	480	6	1/μL

*WBC ↑ in 5 Lbs
 20 to low
 Anemia in flow
 ↑ in HCT for
 TATTOO
 ↓ in HCT for
 dehydration with slight
 ↑ in NaCl
 ↑ in HCT for
 TATTOO
 ↓*

Accession No.
KCBC00531041

Doctor
SUEDEMEYER

Owner
ELEPHANT

Pet Name
TATTOO

Test Requested	Results	Reference Range	Units
Eosinophils	80 1		/ μ L
Basophils	0 0		/ μ L
Platelet Estimate	Adequate		
Platelet Count	270		10^3 / μ L
FIBRINOGEN (SEMI-QUANTITATIVE)			
Fibrinogen, Semi-Quantitative	200		mg/dl

Clinical Notes - Individual Specimen Report
KANSAS CITY ZOOLOGICAL PARK

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: TATTOO

Sex: Female
Age: 29Y 6M 6D

Acc. #: 102705
Birth: 9.Jan.1978

.....2006....

8.Sep.2006

Michigan State University Toxicology results UMC microbiology
Encounter: 00227632
Received: 9/8/06
Reported: 9/28/06

General Toxicology

GCMS Specimen: lettuce

GCMS: positive

GCMS Interpretation: Compounds identified in lettuce: Permethrin.
Permethrin is a synthetic pyrethroid compound which is used as an
insecticide. Wilson K. Rumbelha BVM, PhD, Clinical Toxicologist.

Comments: Expected result. WKS.

<<<Microbiology>>>

Sample Accession #:0620605

Laboratory:

Date Received: 9/8/06
Date Reported: 9/18/06

- ANTECH
- NVSL
- UMC
- OTHER

Submission type:

- aerobic bacteriology
- anaerobic bacteriology
- comprehensive stool culture
- mycology
- enteric pathogen screen
- mycobacteria isolation
- other:

Sample source: Fecal

Organism:

- 1.
- 2.
- 3.

Comments: No significant growth. The fecal sample was negative, by
culture, for Salmonella using primary and secondary enrichment in
conjunction with the use of selective media.

WNL per WKS. (ERB)

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Name: TATTOO

Sex: Female
Age: 29Y 6M 7D
Acc. #: 102705
Birth: 9.Jan.1978

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Active
Weight: 2722 Kg on 1.Jun.1995
Manual restraint used.

Date of Collection: 12.Oct.2005
Time of Collection: 9:00.0
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 13.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	9.2		*10 ³ /UL
RED BLOOD CELL COUNT	3.4		*10 ⁶ /UL
HEMOGLOBIN	> 16.0		GM/DL
HEMATOCRIT	> 45		%
MCV	132		fL
MCH	> 47.1		uug
MCHC	35.6		gm/dL
SEGMENTED NEUTROPHILS	26	(2.392)	% (*10 ³ /UL)
LYMPHOCYTES	68	(6.256)	% (*10 ³ /UL)
MONOCYTES	5	(0.460)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.092)	% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	273		*10 ³ /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	92		\UL
ABSOLUTE LYMPHOCYTES	6256		/UL
ABSOLUTE MONOCYTES	460		/UL
ABSOLUTE SEGS	2392		/UL
FIBRINOGEN	100		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.8		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	36		%
MEAN CORPUSCULAR VOLUME	132		U(3)

Comments >>

RBC Morph: Normal

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: TATTOO

Sex: Female
Age: 29Y 6M 7D
Acc. #: 102705
Birth: 9.Jan.1978

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Active
Weight: 2722 Kg on 1.Jun.1995
Manual restraint used.

Date of Collection: 12.Oct.2005
Time of Collection: 9:00.0
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 13.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	76	MG/DL
BLOOD UREA NITROGEN	9	MG/DL
CREATININE	1.1	MG/DL
BUN/creatinine ratio	8.18	
CALCIUM	11.3	MG/DL
PHOSPHORUS	4.1	MG/DL
calcium/phosphorus ratio	2.76	
SODIUM	130	MEQ/L
POTASSIUM	4.5	MEQ/L
sodium/potassium ratio	28.9	
CHLORIDE	87	MEQ/L
CHOLESTEROL	> 88	MG/DL
TOTAL PROTEIN (COLORIMETRY)	> 8.6	GM/DL
ALBUMIN (COLORIMETRY)	3.3	GM/DL
GLOBULIN (COLORIMETRY)	>> 5.3	GM/DL
albumin/globulin ratio	0.623	
ASPARTATE AMINOTRANSFERASE	< 8	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	108	IU/L
LACTATE DEHYDROGENASE	< 295	IU/L
CREATINE PHOSPHOKINASE	224	IU/L
ALBUMIN GLOBULIN RATIO	0.6	GM/DL
BUN/CREATININE RATIO	8	MG/DL
GAMMA GLUTAMYLTRANSFERASE	10	IU/L
SODIUM/POTASSIUM RATIO	29	RATIO

Comments >>

Mild increase in cholesterol secondary to diet. Unknown increase for Hgb value. Rest wnl. WKS.

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: TATTOO

Sex: Female
Age: 29Y 6M 7D

Acc. #: 102705
Birth: 9.Jan.1978

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2722 Kg on 1.Jun.1995
Manual restraint used.

Date of Collection: 19.Oct.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant:
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 19.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	7.0		*10 ³ /UL
RED BLOOD CELL COUNT	<	2.6		*10 ⁶ /UL
HEMOGLOBIN		12.2		GM/DL
HEMATOCRIT	<	34		%
MCV		131		fL
MCH	>	46.9		uug
MCHC		35.9		gm/dL
SEGMENTED NEUTROPHILS		26	(1.820)	% (*10 ³ /UL)
LYMPHOCYTES		63	(4.410)	% (*10 ³ /UL)
MONOCYTES		9	(0.630)	% (*10 ³ /UL)
EOSINOPHILS		2	(0.140)	% (*10 ³ /UL)
BASOPHILS		0		% (*10 ³ /UL)
ESTIMATED PLATELET COUNT		INCRS		
ABSOLUTE BASOPHILS		0		/UL
ABSOLUTE EOSINOPHILS		140		\UL
ABSOLUTE LYMPHOCYTES		4410		/UL
ABSOLUTE MONOCYTES		630		/UL
ABSOLUTE SEGS		1820		/UL
FIBRINOGEN		300		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN		46.9		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION		36		%
MEAN CORPUSCULAR VOLUME		131		U(3)

Morphology Results >>

ANISOCYTOSIS +1

Comments >>

Mild relative leukopenia and decreased RBC may be just dilutionary effects. WKS.

Kansas City Zoo
 Swope Park
 Kansas City, MO 64132
 Tel: 816-513-5700
 Fax: 816-513-4667

Client # 97779
 Chart # 102705

Accession No. CHBC01355224	Doctor SUEDMEYER	Owner ELEPHANT	Pet Name TATTOO	Received 10/19/2005
Species Mammal	Breed	Sex F	Pet Age	Reported 10/20/2005 05:12 AM

Test Requested	Results	Reference Range	Units
COMPLETE BLOOD COUNT			
WBC	7.0 (LOW)	8.0-15.0	10 ³ /μL
RBC	2.6	2.0-4.0	10 ⁶ /μL
HGB	12.2	10-13	g/dL
HCT	34	34-44	%
MCV		130-170	fL
MCV 131			
MCH	46.9	42.0-52.0	pg
MCHC	36	32-36	%
Comment	ANISOCYTOSIS +1		
Differential	Absolute	%	
Neutrophils	1820	26	/μL
Lymphocytes	4410	63	/μL
Monocytes	630	9	/μL
Eosinophils	140	2	/μL
Basophils	0	0	/μL

Platelet Estimate

Platelets appear increased and are above 600,000/μL. If it is clinically necessary to obtain an accurate count, please call Client Services to add on a platelet count. Submitting a fresh sample would be most accurate.

FIBRINOGEN (SEMI-QUANTITATIVE)

Fibrinogen, Semi-Quantitative 300 mg/dl

REPORT NOTES:

 Testing which requires serum has been requested on this patient; however, no serum was received. Please submit a serum sample with a new test request form and include this reference number so we may complete the testing. If there are any questions, please contact Customer Service at 1-800-745-4725.

*WBC not reliable - leukopenia
 and HGB may be just
 diluting effects
 9*