

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

LOXODONTA AFRICANA (no subsp)  
African elephant  
Name: LOIS

Sex: Female  
Age: 29Y Est.

Acc. #: 1670  
Birth: 17.Sep.1978

Collection Information >>

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Active  
Weight: 2948 Kg on 28.May.1997  
Manual restraint used.

Date of Collection: 19.Jul.2005  
Time of Collection:  
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: 20.Jul.2005  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.4		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	3.2		*10 <sup>6</sup> /UL
HEMOGLOBIN	13.4		GM/DL
HEMATOCRIT	< 33		%
MCV	<< 103		fL
MCH	41.9		uug
MCHC	>> 40.6		gm/dL
SEGMENTED NEUTROPHILS	40	(4.160)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	27	(2.808)	% (*10 <sup>3</sup> /UL)
MONOCYTES	> 31	(3.224)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	2	(0.208)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQU		
PLATELET COUNT	270		*10 <sup>3</sup> /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	208		\UL
ABSOLUTE LYMPHOCYTES	2808		/UL
ABSOLUTE MONOCYTES	3224		/UL
ABSOLUTE SEGS	4160		/UL
FIBRINOGEN	200		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	42.0		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	40		%
MEAN CORPUSCULAR VOLUME	103		U(3)

Comments >>

RBC Morph: Normal

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Collected by:  
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample:  
Storage: Not recorded  
Sample Quality: No quality problems.

Laboratory: ANTECH  
Date of Analysis: 20.Jul.2005  
Time of Analysis:  
Analysis by:

Tests and Results >>

GLUCOSE	88	MG/DL
BLOOD UREA NITROGEN	7	MG/DL
CREATININE	1.6	MG/DL
BUN/creatinine ratio	4.38	
CALCIUM	< 9.9	MG/DL
PHOSPHORUS	4.1	MG/DL
calcium/phosphorus ratio	2.41	
SODIUM	130	MEQ/L
POTASSIUM	4.4	MEQ/L
sodium/potassium ratio	29.5	
CHLORIDE	87	MEQ/L
CHOLESTEROL	73	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.6	GM/DL
ALBUMIN (COLORIMETRY)	3.2	GM/DL
GLOBULIN (COLORIMETRY)	4.4	GM/DL
albumin/globulin ratio	0.727	
ASPARTATE AMINOTRANSFERASE	15	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	< 65	IU/L
LACTATE DEHYDROGENASE	< 336	IU/L
CREATINE PHOSPHOKINASE	319	IU/L
ALBUMIN GLOBULIN RATIO	0.7	GM/DL
BUN/CREATININE RATIO	4	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L
SODIUM/POTASSIUM RATIO	30	RATIO

Comments >>

Slight decrease in Ca. Rest WNL. Mild elevation of fibrinogen. WKS.

Clinical Notes - Individual Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

LOXODONTA AFRICANA (no subsp)  
African elephant  
Name: LOIS

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Age: 29Y Est.

Acc. #: 1670  
Birth: 17.Sep.1978

.....2005....

2.Nov.2005

<<<Microbiology>>>

Sample Accession #:0522404

Date Received: 11/2/05  
Date Reported: 12/3/05

Laboratory:  
[ ] ANTECH  
[ ] NVSL  
[X] 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)

Clinical Notes - Individual Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

=====  
LOXODONTA AFRICANA (no subsp)  
African elephant  
Name: LOIS  
=====

Sex: Female                      Acc. #: 1670  
Age: 29Y Est.                    Birth: 17.Sep.1978  
=====

.....2006...

8.Sep.2006

Michigan State University Toxicology results and MU 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 #:0620604

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

Laboratory:  
[ ] ANTECH  
[ ] NVSL  
[X] UMC  
[ ] OTHER

Submission type:  
[X] 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)

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

Client # 97779  
 Chart # 1670

Accession No. CHBC01193556	Doctor SUEDMEYER	Owner ELEPHANT	Pet Name LOIS	Received 10/12/2005
Species Mammal	Breed	Sex F	Pet Age 27Y	Reported 10/12/2005 05:47 AM

Test Requested	Results	Reference Range	Units
<b>VET SCREEN (EQUINE)</b>			
AST (SGOT)	9 (LOW)	70-130	IU/L
Total Bilirubin	0.2	0.1-0.3	mg/dL
Alkaline Phosphatase	103	60-150	IU/L
GGT	9		IU/L
Total Protein	8.0	8.0-9.2	g/dL
Albumin	3.0	2.3-3.5	g/dL
Globulin	5.0		g/dL
A/G Ratio	0.6		
Cholesterol	66 (HIGH)	41-61	mg/dL
BUN	7	1-12	mg/dL
Creatinine	1.2 (LOW)	1.3-1.8	mg/dL
BUN/Creatinine Ratio	6		
Phosphorus	4.7	3.6-4.8	mg/dL
Calcium	11.2 (HIGH)	10.0-11.0	mg/dL
Glucose	108	78-200	mg/dL
Sodium	133	129-136	mEq/L
Potassium	4.5	4.2-5.5	mEq/L
Na/K Ratio	30		
Chloride	90	85-99	mEq/L
CPK	170		IU/L
LDH	270	170-420	IU/L
<b>COMPLETE BLOOD COUNT</b>			
WBC	13.2	8.0-15.0	10 <sup>3</sup> /μL
RBC	3.2	2.0-4.0	10 <sup>6</sup> /μL
HGB	13.3 (HIGH)	10-13	g/dL
HCT	38	34-44	%
MCV		130-170	fL
MCV = 119			
MCH	42.4	42.0-52.0	pg
MCHC	35	32-36	%
<b>Comment</b>			
RBC MORPHOLOGY	NORMAL		
<b>Differential</b>			
	<b>Absolute</b>	<b>%</b>	
Neutrophils	6468	49	/μL
Lymphocytes	5940	45	/μL
Monocytes	660	5	/μL
Eosinophils	132	1	/μL

*Calcium just above and  
 but not essential  
 want with  
 calcium*

Accession No.  
CHBC01193556

Doctor  
SUEDEMEYER

Owner  
ELEPHANT

Pet Name  
LOIS

Test Requested	Results	Reference Range	Units
Basophils	0	0	/ $\mu$ L
Platelet Estimate	Adequate		
Platelet Count	279		$10^3$ / $\mu$ L
<b>FIBRINOGEN (SEMI-QUANTITATIVE)</b>			
Fibrinogen, Semi-Quantitative	300		mg/dl

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

Client # 97779  
 Chart # 1670

Accession No. <b>CHBC01339427</b>	Doctor <b>SUEDMEYER</b>	Owner <b>ELEPHANT</b>	Pet Name <b>LOIS</b>	Received <b>10/19/2005</b>
Species <b>Mammal</b>	Breed	Sex <b>F</b>	Pet Age <b>27Y</b>	Reported <b>10/19/2005 06:55 AM</b>

Test Requested	Results	Reference Range	Units
<b>COMPLETE BLOOD COUNT</b>			
WBC	6.2 (LOW) ↓	8.0-15.0	10 <sup>3</sup> /μL
RBC	3.0 ✓	2.0-4.0	10 <sup>6</sup> /μL
HGB	12.6 ✓	10-13	g/dL
HCT	37 ✓	34-44	%
MCV		130-170	fL
MCV 123			
MCH	42.1 ✓	42.0-52.0	pg
MCHC	34 ✓	32-36	%
Comment			
HYPOCHROMASIA +1			
<b>Differential</b>	<b>Absolute</b>	<b>%</b>	
Neutrophils	1550 ✓	25	/μL
Lymphocytes	4216 ✓	68	/μL
Monocytes	372 ✓	6	/μL
Eosinophils	62 ✓	1	/μL
Basophils	0	0	/μL

**Platelet Estimate**

Platelets appear increased and are above 600,000/uL. 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 100 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.  
 \*\*\*\*\*

*W/O serum cannot  
 fully evaluate liver (ALP)  
 5/24/05 - Reliance  
 Pentagon  
 B*