

Medical History Report - Summary for Individual Specimen  
KANSAS CITY ZOOLOGICAL PARK

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=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                           Female
Name: LEA                                               Birth: 17.Sep.1978 (Estimated)
=====

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.....2005....

- 8.Jun Clinical note recorded. (TLH)
- 24.Jun Clinical note recorded. (WKS)
- 26.Jul Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:8.00 \*10<sup>3</sup>/UL; HCT: 37.0%; BUN:5 MG/DL;
- 27.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN
- 28.Jul Clinical note recorded. (SKC)
- 3.Aug Clinical note recorded. (TLH)
- 11.Aug Clinical note recorded. (KMP)
- 30.Aug Clinical note recorded. (KMP)
- 31.Aug Clinical note recorded. (KMP)
- 6.Sep Clinical note recorded. (TLH)
- 9.Sep Clinical note recorded. (WKS)
- 11.Sep Clinical note recorded. (KMP)
- 14.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:9.30 \*10<sup>3</sup>/UL; HCT: 41.0%; BUN:7 MG/DL;
- 16.Sep Clinical note recorded. (TLH)
- 17.Sep Clinical note recorded. (TLH)
- 19.Sep Clinical note recorded. (TLH)
- 21.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:10.60 \*10<sup>3</sup>/UL; HCT: 40.0%; BUN:6 MG/DL;  
Clinical note recorded. (SJV)
- 22.Sep Clinical note recorded. (TLH)
- 26.Sep Clinical note recorded. (TLH)
- 27.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:9.00 \*10<sup>3</sup>/UL; HCT: 39.0%; BUN:7 MG/DL;  
Clinical note recorded. (TLH)
- 28.Sep Clinical note recorded. (SJV)  
Clinical note recorded. (TLH)
- 30.Sep Blood sample: Chemistry results.  
Clinical note recorded. (SJV)  
Clinical note recorded. (TLH)
- 1.Oct Clinical note recorded. (TLH)
- 3.Oct Clinical note recorded. (TLH)
- 4.Oct Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:8.60 \*10<sup>3</sup>/UL; HCT: 38.0%; BUN:7 MG/DL;  
Clinical note recorded. (TLH)
- 5.Oct Clinical note recorded. (SJV)
- 6.Oct Clinical note recorded. (TLH)
- 7.Oct Clinical note recorded. (TLH)

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=====

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.....2005....

- 10.Oct Clinical note recorded. (TLH)
- 11.Oct Blood sample: (EDTA) ( 9:00.0) Hematology/Chemistry/Serology results.  
WBC:8.90 \*10<sup>3</sup>/UL; HCT: 41.0%; BUN:7 MG/DL;  
Clinical note recorded. (SJV)
- 12.Oct Clinical note recorded. (TLH)
- 13.Oct Clinical note recorded. (WKS)
- 14.Oct Clinical note recorded. (TLH)
- 16.Oct Clinical note recorded. (TLH)
- 17.Oct Clinical note recorded. (TLH)
- 18.Oct Blood sample: Hematology results.  
WBC:9.60 \*10<sup>3</sup>/UL; HCT: 37.0%;
- 20.Oct Clinical note recorded. (TLH)
- 25.Oct Blood sample: (EDTA) ( 9:00.0) Hematology/Chemistry/Serology results.  
WBC:9.00 \*10<sup>3</sup>/UL; HCT: 41.0%; BUN:5 MG/DL;  
Clinical note recorded. (TLH)
- 27.Oct Clinical note recorded. (TLH)
- 28.Oct Clinical note recorded. (TLH)
  
- 1.Nov Clinical note recorded. (TLH)
- 2.Nov Clinical note recorded. (TLH)
- 4.Nov Clinical note recorded. (TLH)
- 16.Nov Clinical note recorded. (WKS)
  
- Weight: 4088 Kg ( 9010 Lb)
  
- 7.Dec Clinical note recorded. (WKS)
- 9.Dec Clinical note recorded. (TLH)

.....2006....

- 4.Jan Clinical note recorded. (TLH)
- 6.Jan Clinical note recorded. (TLH)  
Clinical note recorded. (WKS)
- 10.Jan Clinical note recorded. (WKS)
- 17.Jan Clinical note recorded. (ANL)  
Clinical note recorded. (TLH)  
Clinical note recorded. (WKS)
  
- 2.Feb Clinical note recorded. (TLH)
- 8.Feb Clinical note recorded. (WKS)
  
- 5.Mar Parasitology examination: (ROUTINE EXAM) Fecal sample.
- 6.Mar Parasitology examination: (ROUTINE EXAM) Fecal sample.
- 7.Mar Clinical note recorded. (TLH)
  
- 4.Apr Parasitology examination: (NOT SPECIFIED) Fecal sample.



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Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
=====

.....2006....

30.Aug Blood sample: (EDTA) ( 8:00.0) Hematology/Chemistry/Serology results.  
WBC:9.50 \*10<sup>3</sup>/UL; HCT: 44.0%; BUN:5 MG/DL;  
31.Aug Clinical note recorded. (WKS)  
  
2.Sep Clinical note recorded. (WKS)  
7.Sep Clinical note recorded. (ERB)  
8.Sep Clinical note recorded. (ERB)  
Clinical note recorded. (WKS)  
12.Sep Clinical note recorded. (ERB)  
15.Sep Clinical note recorded. (WKS)  
27.Sep Clinical note recorded. (AP)  
  
15.Oct Clinical note recorded. (ANL)  
16.Oct Clinical note recorded. (WKS)  
19.Oct Clinical note recorded. (GLT)  
  
2.Nov Clinical note recorded. (GLT)  
3.Nov Clinical note recorded. (WKS)  
6.Nov Clinical note recorded. (GLT)  
9.Nov Clinical note recorded. (GLT)  
10.Nov Clinical note recorded. (WKS)  
16.Nov Clinical note recorded. (WKS)  
18.Nov Clinical note recorded. (WKS)  
  
2.Dec Clinical note recorded. (WKS)  
3.Dec Clinical note recorded. (ANL)  
6.Dec Clinical note recorded. (ANL)  
8.Dec Clinical note recorded. (AWB)  
9.Dec Clinical note recorded. (WKS)  
16.Dec Clinical note recorded. (WKS)  
19.Dec Clinical note recorded. (GLT)  
20.Dec Clinical note recorded. (GLT)  
21.Dec Clinical note recorded. (AWB)  
26.Dec Clinical note recorded. (WKS)

.....2007....

3.Jan Clinical note recorded. (GLT)  
Clinical note recorded. (MRS)  
4.Jan Clinical note recorded. (ERB)  
5.Jan Clinical note recorded. (ERB)  
10.Jan Clinical note recorded. (ANL)  
15.Jan Clinical note recorded. (ANL)  
18.Jan Clinical note recorded. (WKS)

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Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
=====

.....2007....

20.Jan Clinical note recorded. (WKS)  
22.Jan Clinical note recorded. (GLT)  
23.Jan Clinical note recorded. (GLT)  
Clinical note recorded. (WKS)  
25.Jan Clinical note recorded. (MS)  
Clinical note recorded. (WKS)  
30.Jan Clinical note recorded. (GLT)  
  
1.Feb Clinical note recorded. (GLT)  
4.Feb Clinical note recorded. (ANL)  
5.Feb Clinical note recorded. (GLT)  
Clinical note recorded. (MS)  
6.Feb Clinical note recorded. (GLT)  
7.Feb Clinical note recorded. (GLT)  
8.Feb Clinical note recorded. (WKS)  
9.Feb Clinical note recorded. (WKS)  
10.Feb Clinical note recorded. (WKS)  
12.Feb Clinical note recorded. (GLT)  
16.Feb Clinical note recorded. (WKS)  
  
5.Mar Blood sample: (EDTA) ( 9:00.0) Hematology/Chemistry/Serology results.  
WBC:6.70 \*10<sup>3</sup>/UL; HCT: 39.0%; BUN:6 MG/DL;  
Clinical note recorded. (GLT)  
6.Mar Clinical note recorded. (GLT)  
7.Mar Clinical note recorded. (ERB)  
Clinical note recorded. (RS)  
8.Mar Clinical note recorded. (RS)  
9.Mar Blood sample: (EDTA) ( 9:00.0) Hematology/Chemistry/Serology results.  
WBC:8.40 \*10<sup>3</sup>/UL; HCT: 36.0%; BUN:8 MG/DL;  
Clinical note recorded. (WKS)  
10.Mar Clinical note recorded. (WKS)  
12.Mar Clinical note recorded. (GLT)  
13.Mar Clinical note recorded. (WKS)



Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

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=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 26.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: 27.Jul.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	8.0		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	2.9		*10 <sup>6</sup> /UL
HEMOGLOBIN	13.1		GM/DL
HEMATOCRIT	37		%
MCV	128		fL
MCH	45.2		uug
MCHC	35.4		gm/dL
SEGMENTED NEUTROPHILS	32	(2.560)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	40	(3.200)	% (*10 <sup>3</sup> /UL)
MONOCYTES	23	(1.840)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	4	(0.320)	% (*10 <sup>3</sup> /UL)
BASOPHILS	1	(0.080)	% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	285		*10 <sup>3</sup> /UL
ABSOLUTE BASOPHILS	80		/UL
ABSOLUTE EOSINOPHILS	320		\UL
ABSOLUTE LYMPHOCYTES	3200		/UL
ABSOLUTE MONOCYTES	1840		/UL
ABSOLUTE SEGS	2560		/UL
FIBRINOGEN	200		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	45.9		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	36		%
MEAN CORPUSCULAR VOLUME	127		U(3)

Morphology Results >>

HYPOCHROMIA +2

Clinical Pathology Records - Specimen Report  
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Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

Health Status: Normal                               Date of Collection: 26.Jul.2005
Fasting Time: < 8 hours                             Time of Collection:
Activity: Active                                     Collected by:
Weight: 2948 Kg on 28.May.1997                     Sample Collection Site: EAR VEIN
Manual restraint used.

```

Chemistry >>

Analysis Information >>

```

Chemistry Sample: Serum                               Laboratory: ANTECH
Storage: Refrigerated (<48 hours)                  Date of Analysis: 27.Jul.2005
Sample Quality: No quality problems.                 Time of Analysis:
                                                         Analysis by:
                                                         Automated analysis.

```

Tests and Results >>

	GLUCOSE	96	MG/DL
	BLOOD UREA NITROGEN	< 5	MG/DL
	CREATININE	1.7	MG/DL
	BUN/creatinine ratio	2.94	
	CALCIUM	10.6	MG/DL
	PHOSPHORUS	4.6	MG/DL
	calcium/phosphorus ratio	2.30	
	SODIUM	129	MEQ/L
	POTASSIUM	4.5	MEQ/L
	sodium/potassium ratio	28.7	
	CHLORIDE	86	MEQ/L
	CHOLESTEROL	>> 105	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	7.8	GM/DL
	ALBUMIN (COLORIMETRY)	< 3.1	GM/DL
	GLOBULIN (COLORIMETRY)	> 4.7	GM/DL
	albumin/globulin ratio	0.660	
	ASPARTATE AMINOTRANSFERASE	< 13	IU/L
	TOTAL BILIRUBIN	0.1	MG/DL
	ALKALINE PHOSPHATASE	77	IU/L
	LACTATE DEHYDROGENASE	< 418	IU/L
	CREATINE PHOSPHOKINASE	216	IU/L
	ALBUMIN GLOBULIN RATIO	0.7	GM/DL
	BUN/CREATININE RATIO	3	MG/DL
	GAMMA GLUTAMYLTRANSFERASE	9	IU/L
	SODIUM/POTASSIUM RATIO	29	RATIO

Comments >>

Mildly elevated cholesterol value. WKS

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Parasitology Examination:

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Submission Data >>
  Type: Fecal sample
  Purpose: ROUTINE EXAMINATION

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Sample id.: 2005-0260
Date collected: 27.Jul.2005

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Collected from:
  From an individual specimen.

```

Enclosure: EBC

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Examination Data >>
  Storage: refrigerated
  Consistency: formed
  Gross appearance: Typical

```

```

Date examined: 27.Jul.2005
by: SO

```

Tests & Results >>

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DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE          NO PARASITES SEEN

```

Clinical Note:

28.Jul.2005

Routine exam -  
Mild pronation of the Left hind limb. Gait WNL. Right front maxillary molar shed today, Right front mandibular molar ready to shed. Mild lenticular sclerosis OU. Mild (likely normal) clear discharge AD.  
Feet/pads appear WNL. Vulva WNL. Cultures collected AU.  
Pupillary light reflex

	OD	OS
Rest	8mm	8mm
Time from rest to max	14sec	12secs
Max constriction	3mm	2.5mm
Time Max to rest	60sec	3 min (SKC)

=====  
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=====

Clinical Note: 3.Aug.2005  
UMC Results Accession #:05-15500

Bacteriology  
Date rcv'd: 7/29/05  
Date finalized: 8/3/05

Aerobic Culture  
Sample: Swab/culturette  
Specimen ID: Ear swab 1

Organism ID:  
Moraxella osloensis  
Aeromonas caviae  
Enterococcus spp

Specimen ID: Ear swab 2  
Organism ID:  
Acinetobacter calcoaceticus lwoffii  
Staphylococcus epidermidis  
Staphylococcus epidermidis  
Acinetobacter baumannii  
Pseudomonas mendocina

Anaerobic Culture  
Specimen ID: Ear swabs 1 & 2  
Organism ID:  
No significant growth for either swab

Fungal Culture  
Specimen ID: Ear swab 1  
Organism ID:  
Fonsecaea spp

Specimen ID: Ear swab 2  
Organism ID:  
Fonsecaea

Results are pending and will be reported in 30 days or sooner if growth develops. 8/3/05.

The above fungal results are from an addended report dated 9/24/05.

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=====

```

Clinical Note:

3.Aug.2005

Antimicrob Susceptibility

Specimen ID: Ear swabs 1 & 2

Organism ID: #1= Moraxella osloensis (1)

#2= Aeromonas caviae (1)

#3= Enterococcus spp (1)

#4= Staphylococcus epidermidis (2)

#5= Staphylococcus epidermidis (2)

Organism ID-	s=susceptible		r=resistant		i=intermediate	
	#1	#2	#3	#4	#5	
Amikacin:		s	s	i	s	s
Amoxi/Clav:		s	i	s	s	r
Ampicillin:		s	r	s	r	r
Cefazolin:		i	r	s	s	r
Cefotaxime:						
Cefoxitin:						
Cefpodoxime:						
Ceftiofur:		s	s	s	s	r
Cephalexin:						
Cephalothin:						
Chloramphenicol:	s	s	s	s	s	
Ciprofloxacin:						
Clindamycin:						
Doxycycline:						
Enrofloxacin:						
Erythromycin:	s	r	s	s	s	
Gentamicin:		s	s	s	s	r
Imipenem:		s	s	s	s	r
Marbofloxacin:						
Neomycin:						
Novobiocin:						
Orbifloxacin/Orbax:						
Oxacil 2% NaCl:	r	r	r	s	r	
Oxytetracycline:						
Penicillin:		s	r	s	r	r
Piperacillin:						
Rifampin:		s	r	s	s	s
Sarafloxacin:						
Spectinomycin:						
Streptomycin:						
Sulfadimethox:						
Sulfathiazole:						
Tetracycline:	s	s	s	s	s	
Ticar/Clav Acid:	s	i	s	s	r	

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=====

Clinical Note: 3.Aug.2005  
Ticarcillin: s r s r r  
Trimeth/Sulfa: s r r s s  
Tylosin:

Defining normal aural flora. WKS (TLH)

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Clinical Note: 11.Aug.2005  
Radiograph of both front feet performed with operant conditioning. (KMP)

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Clinical Note: 30.Aug.2005  
Keeper called reported swelling area seen inside left axillary area.  
(KMP)

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Clinical Note: 31.Aug.2005  
Visual exam swelling is handball size or slightly larger in L axillary  
to monitor. (KMP)

---

Clinical Note: 6.Sep.2005  
Serum sample sent to Cornell Univ. for West Nile Virus Zoological  
Surveillance Project. #110109-05 (TLH)

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Clinical Note: 9.Sep.2005  
Fecal for salmonella culture to Mu this am (WKS)

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Clinical Note: 11.Sep.2005  
Keepers called reported loose stools seen late afternoon, sample  
collected for culture. (KMP)

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Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 14.Sep.2005
Time of Collection:
Collected by: KPR
Sample Collection Site: EAR VEIN

```

Hematology >>

Analysis Information >>

```

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

```

```

Laboratory: ANTECH
Date of Analysis: 14.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	9.3		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	3.1		*10 <sup>6</sup> /UL
HEMOGLOBIN	14.5		GM/DL
HEMATOCRIT	41		%
MCV	132		fL
MCH	> 46.8		uug
MCHC	35.4		gm/dL
SEGMENTED NEUTROPHILS	21	(1.953)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	70	(6.510)	% (*10 <sup>3</sup> /UL)
MONOCYTES	8	(0.744)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	1	(0.093)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	295		*10 <sup>3</sup> /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	93		\UL
ABSOLUTE LYMPHOCYTES	6510		/UL
ABSOLUTE MONOCYTES	744		/UL
ABSOLUTE SEGS	1953		/UL
FIBRINOGEN	300		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.3		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	36		%
MEAN CORPUSCULAR VOLUME	132		U(3)

Comments >>

RBC Morph: Normal

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Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 14.Sep.2005
Time of Collection:
Collected by: KPR
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: 14.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

GLUCOSE	82	MG/DL
BLOOD UREA NITROGEN	7	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	5.00	
CALCIUM	< 10.2	MG/DL
PHOSPHORUS	4.3	MG/DL
calcium/phosphorus ratio	2.37	
SODIUM	131	MEQ/L
POTASSIUM	4.8	MEQ/L
sodium/potassium ratio	27.3	
CHLORIDE	88	MEQ/L
CHOLESTEROL	>> 107	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.2	GM/DL
ALBUMIN (COLORIMETRY)	< 2.9	GM/DL
GLOBULIN (COLORIMETRY)	4.3	GM/DL
albumin/globulin ratio	0.674	
ASPARTATE AMINOTRANSFERASE	14	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	< 63	IU/L
LACTATE DEHYDROGENASE	< 402	IU/L
CREATINE PHOSPHOKINASE	175	IU/L
ALBUMIN GLOBULIN RATIO	0.7	GM/DL
BUN/CREATININE RATIO	5	MG/DL
GAMMA GLUTAMYLTRANSFERASE	10	IU/L
SODIUM/POTASSIUM RATIO	27	RATIO

Comments >>

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Mild increase in fibrinogen, cholesterol with slight decrease in Alb,
Ca.
WKS

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Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 19.Sep.2005  
UMC Results Accession #:05-18445, -43, -36, -38

Date rcv'd: 9/9/05  
Date reported: 9/19/05

Bacteriology

Aerobic Culture  
Specimen ID: Water- wallow by pool  
Organism ID:  
No significant growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS

UMC Results Accession #:05-18443

Date rcv'd: 9/9/05  
Date reported: 9/19/05

Bacteriology

Aerobic Culture  
Specimen ID: Water- Gate wallow  
Organism ID:  
No significant growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS

UMC Results Accession #:05-18438

Date rcv'd: 9/9/05  
Date reported: 9/19/05

Bacteriology



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Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 21.Sep.2005
Time of Collection:
Collected by: KPR
Sample Collection Site: EAR VEIN

```

Hematology >>

Analysis Information >>

```

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

```

```

Laboratory: ANTECH
Date of Analysis: 22.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	10.6		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	3.1		*10 <sup>6</sup> /UL
HEMOGLOBIN	14.4		GM/DL
HEMATOCRIT	40		%
MCV	129		fL
MCH	46.5		uug
MCHC	36.0		gm/dL
SEGMENTED NEUTROPHILS	29	(3.074)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	68	(7.208)	% (*10 <sup>3</sup> /UL)
MONOCYTES	1	(0.106)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	2	(0.212)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	338		*10 <sup>3</sup> /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	212		\UL
ABSOLUTE LYMPHOCYTES	7208		/UL
ABSOLUTE MONOCYTES	106		/UL
ABSOLUTE SEGS	3074		/UL
FIBRINOGEN	300		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.6		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	36		%
MEAN CORPUSCULAR VOLUME	129		U(3)

Comments >>

RBC Morph: Normal

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                           Female
Name: LEA                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 21.Sep.2005
Time of Collection:
Collected by: KPR
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: 22.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

	GLUCOSE	75	MG/DL
	BLOOD UREA NITROGEN	< 6	MG/DL
	CREATININE	1.2	MG/DL
	BUN/creatinine ratio	5.00	
	CALCIUM	11.0	MG/DL
	PHOSPHORUS	< 3.9	MG/DL
	calcium/phosphorus ratio	2.82	
	SODIUM	133	MEQ/L
	POTASSIUM	4.8	MEQ/L
	sodium/potassium ratio	27.7	
	CHLORIDE	87	MEQ/L
	CHOLESTEROL	>> 103	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	7.7	GM/DL
	ALBUMIN (COLORIMETRY)	< 3.0	GM/DL
	GLOBULIN (COLORIMETRY)	> 4.7	GM/DL
	albumin/globulin ratio	0.638	
	ASPARTATE AMINOTRANSFERASE	< 13	IU/L
	TOTAL BILIRUBIN	0.1	MG/DL
	ALKALINE PHOSPHATASE	72	IU/L
	LACTATE DEHYDROGENASE	< 404	IU/L
	CREATINE PHOSPHOKINASE	200	IU/L
	ALBUMIN GLOBULIN RATIO	0.6	GM/DL
	BUN/CREATININE RATIO	5	MG/DL
	GAMMA GLUTAMYLTRANSFERASE	10	IU/L
	SODIUM/POTASSIUM RATIO	28	RATIO

Comments >>

```

Mild elevation of fibrinogen with slight increase in phos and Na.
WKS

```

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                           Female
Name: LEA                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Clinical Note: 22.Sep.2005

UMC Results Accession #:05-18442, 05-18440 and TVMDL  
#:C052630160

Accession #:05-18442

Bacteriology

Date rcv'd: 9/9/05

Date finalized: 9/15/05

Aerobic Culture

Sample: Water

Specimen ID: Water from elephant barn

Organism ID:

Salmonella spp, Group B

Comments: The Salmonella serogroup B isolate will be sent to NVSL for speciation.

Small Animal Suscept

Specimen ID: Water from elephant barn

Organism ID: #1= Salmonella spp, Group B

#2=

#3=

s=susceptible r=resistant i=intermediate

Organism ID- #1 #2 #3

Amikacin: s

Amoxi/Clav: s

Ampicillin: s

Cefazolin: s

Cefotaxime:

Cefoxitin: s

Cefpodoxime: s

Ceftiofur: s

Cephalexin:

Cephalothin: s

Chloramphenicol: s

Ciprofloxacin:

Clindamycin: r

Doxycycline:

Enrofloxacin: s

Erythromycin: r

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                           Female
Name: LEA                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Clinical Note: 22.Sep.2005

```

Gentamicin:          s
Imipenem:            s
Marbofloxacin:       s
Neomycin:
Novobiocin:
Orbifloxacin/Orbax:  s
Oxacil 2% NaCl:     r
Oxytetracycline:
Penicillin:          r
Piperacillin:
Rifampin:            r
Sarafloxacin:
Spectinomycin:
Streptomycin:
Sulfadimethox:
Sulfathiazole:
Tetracycline:        s
Ticar/Clav Acid:    s
Ticarcillin:         s
Trimeth/Sulfa:       s
Tylosin:

```

To evaluate other fecal results, speciates and samples. Two elephants on treatment. WKS

UMC Results Accession #:05-18440

Date rcv'd: 9/9/05  
Date reported: 9/22/05

Bacteriology

Aerobic Culture

Specimen ID: Water from wallow

Organism ID:

No significant growth

Comments: The fecal sample (as typed on report) was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 9/22/05.

WNL. WKS

=====  
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1669  
Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 22.Sep.2005

Texas Vet Med Lab Results Accession#: C052630160  
Date specimens rcv'd: 9/22/05  
Specimen ID: Feces

Test: Salmonella PCR  
Result: Negative

WNL. WKS (TLH)

---







```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)      Accession #: 1669
Common Name: African elephant                        Female
Name: LEA                                           Birth: 17.Sep.1978 (Estimated)
                                                    Age: 27Y Est.
=====
```

Clinical Note: 27.Sep.2005

Bacteriology  
Sample: Swab/culturette

Aerobic Culture  
Specimen ID: Refrigerator swab  
Organism ID:  
No significant growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS

UMC Results                      Accession #:05-18981

Date rcv'd: 9/16/05  
Date reported: 9/27/05

Bacteriology  
Sample: Swab/culturette

Aerobic Culture  
Specimen ID: Stall 3  
Organism ID:  
No significant growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS (TLH)

---

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Collection Information >>                               Date of Collection: 27.Sep.2005
Health Status: Normal                                  Time of Collection:
Fasting Time: < 8 hours                               Collected by: KPR
Activity: Active                                       Sample Collection Site: EAR VEIN
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Hematology >>
Analysis Information >>                                Laboratory: ANTECH
Anticoagulant: EDTA                                   Date of Analysis: 27.Sep.2005
Storage: Refrigerated (<48 hours)                   Time of Analysis:
Sample Quality: No quality problems.                  Analysis by:
                                                         Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	9.0		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	3.0		*10 <sup>6</sup> /UL
HEMOGLOBIN	13.9		GM/DL
HEMATOCRIT	39		%
MCV	130		fL
MCH	46.3		uug
MCHC	35.6		gm/dL
SEGMENTED NEUTROPHILS	25	(2.250)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	72	(6.480)	% (*10 <sup>3</sup> /UL)
MONOCYTES	1	(0.090)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	2	(0.180)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	INCRS		
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	180		\UL
ABSOLUTE LYMPHOCYTES	6480		/UL
ABSOLUTE MONOCYTES	90		/UL
ABSOLUTE SEGS	2250		/UL
FIBRINOGEN	200		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.8		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	36		%
MEAN CORPUSCULAR VOLUME	130		U(3)

```

Comments >>
RBC Morph: Normal

```

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 27.Sep.2005
Time of Collection:
Collected by: KPR
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: 27.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

GLUCOSE	72	MG/DL
BLOOD UREA NITROGEN	7	MG/DL
CREATININE	1.0	MG/DL
BUN/creatinine ratio	7.00	
CALCIUM	10.6	MG/DL
PHOSPHORUS	4.3	MG/DL
calcium/phosphorus ratio	2.47	
SODIUM	> 134	MEQ/L
POTASSIUM	5.0	MEQ/L
sodium/potassium ratio	26.8	
CHLORIDE	88	MEQ/L
CHOLESTEROL	>> 123	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.2	GM/DL
ALBUMIN (COLORIMETRY)	< 3.0	GM/DL
GLOBULIN (COLORIMETRY)	>> 5.2	GM/DL
albumin/globulin ratio	0.577	
ASPARTATE AMINOTRANSFERASE	14	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	72	IU/L
LACTATE DEHYDROGENASE	< 368	IU/L
CREATINE PHOSPHOKINASE	178	IU/L
ALBUMIN GLOBULIN RATIO	0.6	GM/DL
BUN/CREATININE RATIO	7	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L
SODIUM/POTASSIUM RATIO	27	RATIO

Comments >>

Mild hyperglobulinemia. WKS



```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                           Female
Name: LEA                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====
```

```
Clinical Note:                                           28.Sep.2005
UMC Results      Accession #:05-18983, 05-18978 and 05-18989
```

Date rcv'd: 9/16/05  
Date reported: 9/28/05

Bacteriology  
Sample: Swab/culturette

Aerobic Culture  
Specimen ID: Table swab  
Organism ID:  
No significant growth

Comments: The table swab sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 9/28/05.

WNL. WKS

```
UMC Results      Accession #:05-18978
```

Date rcv'd: 9/16/05  
Date reported: 9/28/05

Bacteriology  
Sample: Swab/culturette

Aerobic Culture  
Specimen ID: Stall 4  
Organism ID:  
No significant growth

Comments: The swab sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 9/28/05.

WNL. WKS

```
UMC Results      Accession #:05-18989
```

Date rcv'd: 9/16/05

=====  
Scientific Name: *LOXODONTA AFRICANA* (no subsp)                      Accession #: 1669  
Common Name: African elephant    Female  
Name: LEA    Birth: 17.Sep.1978 (Estimated)  
    Age: 27Y Est.  
=====

Clinical Note:    28.Sep.2005  
Date reported: 9/28/05

Bacteriology

Aerobic Culture

Specimen ID: Fecal

Organism ID:

No significant growth

Comments: The fecal sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 9/28/05.

WNL. WKS (TLH)

---

Clinical Note:    30.Sep.2005  
Requesting serum protein electrophoresis due to bloodwork results from 9/27/05. Performed Salmonella surveillance: swabbed elephant barn kitchen, stalls, drinkers, and big yard. Also took unk fecal sample from big yard and swabbed wheelbarrows and truck. (SJV)

---

=====  
Scientific Name: *LOXODONTIA AFRICANA* (no subsp)                      Accession #: 1669  
Common Name: African elephant    Female  
Name: LEA    Birth: 17.Sep.1978 (Estimated)  
    Age: 27Y Est.  
=====

Clinical Note:    30.Sep.2005  
UMC Results                      Accession #:0519165 and TVMDL#C052700342

Date rcv'd: 9/20/05  
Date reported: 9/30/05

Bacteriology

Aerobic Culture  
Specimen ID: Fecal 2  
Organism ID:  
    No Significant Growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 9/30/05. WHF.

WNL.    WKS

Texas Vet Med Lab Results    Accession#: C052700342  
Date specimens rcv'd: 9/27/05  
Specimen ID: Feces

Tests Requested: Salmonella PCR  
Result: Positive

Cultures have been negative.    WKS    (TLH)

---

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 30.Sep.2005
Time of Collection:
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: 3.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

TOTAL PROTEIN (COLORIMETRY)		8.0	GM/DL
ALBUMIN (COLORIMETRY)		3.89	GM/DL
GLOBULIN (COLORIMETRY)		4.11	GM/DL
albumin/globulin ratio		0.946	
ALPHA-1 GLOBULIN (ELECTROPHORESIS)	<<	0.12	MG/DL
ALPHA-2 GLOBULIN (ELECTROPHORESIS)		0.80	MG/DL
BETA-1 GLOBULIN (ELECTROPHORESIS)		0.77	MG/DL
GAMMA GLOBULIN (ELECTROPHORESIS)	>>	2.42	GM/DL

Comments >>

Suspect increase in Gamma fraction is related to re-exposure/infection with WNV. WKS

=====

Scientific Name: <i>LOXODONTA AFRICANA (no subsp)</i>	Accession #: 1669
Common Name: African elephant	Female
Name: LEA	Birth: 17.Sep.1978 (Estimated)
	Age: 27Y Est.

=====

Clinical Note: 1.Oct.2005  
UMC Results Accession #:0519293

Date rcv'd: 9/21/05  
Date reported: 10/1/05

Bacteriology  
Sample: Swab/culturette

Aerobic Culture  
Specimen ID: Hole near gate  
Organism ID:  
No Significant Growth

Aerobic Culture  
Specimen ID: Pool swab  
Organism ID:  
No Significant Growth

Aerobic Culture  
Specimen ID: Small wallow swab  
Organism ID:  
No Significant Growth

Aerobic Culture  
Specimen ID: Southside pool swab  
Organism ID:  
No Significant Growth

Aerobic Culture  
Specimen ID: Large wallow swab  
Organism ID:  
No Significant Growth

Comments: The environmental samples were negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 10/1/05.

WNL. WKS (TLH)

---

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Clinical Note:                                           3.Oct.2005
UMC Results- Access.#:0520188-..204, ..206-..207, and ..340

```

```

Date rcv'd: 10/3/05
Date reported: 10/13/05

```

```

Bacteriology
Sample: Swab/culturette

```

Aerobic Culture

Accession #:	0520188	Accessio
Specimen ID:	Drain swab	Specimen ID: Whe
Accession #:	0520190	Accessio
Specimen ID:	Truck	Specimen
Accession #:	0520192	Accessio
Specimen ID:	Door 5 swab	Specimen ID: Fo
Accession #:	0520194	Accessio
Specimen ID:	Big yard swab	Specimen ID: Dr
Accession #:	0520196	Accessio
Specimen ID:	Stall 1	Specimen
Accession #:	0520198	Accessio
Specimen ID:	Stall 5	Specimen
Accession #:	0520200	Accessio
Specimen ID:	Refrigerator	Specimen ID: St
Accession #:	0520202	Accessio
Specimen ID:	Stall 2	Specimen
Accession #:	0520204	Accessio
Specimen ID:	Big yard- feces	Specimen ID: St
Accession #:	0520207	Accessio
Specimen ID:	Stall 3	Specimen

```

Organism ID on all of the above specimens:
No Significant Growth

```

The samples were negative, by culture, for Salmonella using primary



```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====
```

```
Clinical Note:                                           4.Oct.2005
UMC Results      Accession #:0519960, -61, -20338 and
TVMDL#C052700340
```

Date rcv'd: 9/29/05  
Date reported: 10/4/05

PCR Results  
WNV PCR Left eye swab Negative

WNL. WKS

UMC Results Accession #:0519961

Date rcv'd: 9/29/05  
Date reported: 10/4/05

PCR Results  
WNV PCR Right eye swab Negative

WNL. WKS

UMC Results Accession #:0520338

Date rcv'd: 10/4/05  
Date reported: 10/13/05

Bacteriology

Aerobic Culture

Specimen ID: Fecal

Organism ID:

No Significant Growth

Comments: The fecal sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS

=====  
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1669  
Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 4.Oct.2005  
Texas Vet Med Lab Results Accession#: C052700340  
Date specimens rcv'd: 9/27/05  
Specimen ID: Produce- Fruits and Vegetables  
  
Tests Requested: Salmonella PCR  
Test: Salmonella Culture  
Isolate: Negative Culture Salmonella  
  
WNL. WKS (TLH)

---

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 4.Oct.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: 5.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	8.6		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	2.9		*10 <sup>6</sup> /UL
HEMOGLOBIN	13.4		GM/DL
HEMATOCRIT	38		%
MCV	131		fL
MCH	46.2		uug
MCHC	35.3		gm/dL
SEGMENTED NEUTROPHILS	34	(2.924)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	64	(5.504)	% (*10 <sup>3</sup> /UL)
MONOCYTES	1	(0.086)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	1	(0.086)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	319		*10 <sup>3</sup> /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	86		\UL
ABSOLUTE LYMPHOCYTES	5504		/UL
ABSOLUTE MONOCYTES	86		/UL
ABSOLUTE SEGS	2924		/UL
FIBRINOGEN	300		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.6		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	36		%
MEAN CORPUSCULAR VOLUME	131		U(3)

Comments >>

RBC Morph: Normal

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 4.Oct.2005
Time of Collection:
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: 5.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

GLUCOSE	<	59	MG/DL
BLOOD UREA NITROGEN		7	MG/DL
CREATININE		1.1	MG/DL
BUN/creatinine ratio		6.36	
CALCIUM		10.6	MG/DL
PHOSPHORUS		4.4	MG/DL
calcium/phosphorus ratio		2.41	
SODIUM	>	134	MEQ/L
POTASSIUM		4.8	MEQ/L
sodium/potassium ratio		27.9	
CHLORIDE		88	MEQ/L
CHOLESTEROL	>>	104	MG/DL
TOTAL PROTEIN (COLORIMETRY)		7.8	GM/DL
ALBUMIN (COLORIMETRY)	<	3.0	GM/DL
GLOBULIN (COLORIMETRY)	>	4.8	GM/DL
albumin/globulin ratio		0.625	
ASPARTATE AMINOTRANSFERASE		16	IU/L
TOTAL BILIRUBIN		0.1	MG/DL
ALKALINE PHOSPHATASE		80	IU/L
LACTATE DEHYDROGENASE	<	414	IU/L
CREATINE PHOSPHOKINASE		232	IU/L
ALBUMIN GLOBULIN RATIO		0.6	GM/DL
BUN/CREATININE RATIO		6	MG/DL
GAMMA GLUTAMYLTRANSFERASE		9	IU/L
SODIUM/POTASSIUM RATIO		28	RATIO

Comments >>

Mild increase in lymphs. WKS

```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====
```

```
Clinical Note:                                           5.Oct.2005
Cultured standing water from yard for Salmonella. (SJV)
```

---

=====  
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1669  
Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 6.Oct.2005  
UMC Results Accession #:0519726 and 0520520

Date rcv'd: 9/27/05  
Date reported: 10/6/05

Bacteriology

Aerobic Culture  
Specimen ID: Produce from Elephants  
Organism ID:  
No Significant Growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 10/6/05.

WNL. WKS

UMC Results Accession #:0520520

Date rcv'd: 10/06/05  
Date reported: 11/16/05

Bacteriology

Aerobic Culture  
Specimen ID: Elephant yard pool by gate  
Organism ID:  
No significant growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS (TLH)

---

=====  
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1669  
Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 7.Oct.2005  
UMC Results Accession #:0519721

Date rcv'd: 9/27/05  
Date reported: 10/7/05

Bacteriology

Aerobic Culture  
Specimen ID: Fecal  
Organism ID:  
No Significant Growth

Comments: The fecal sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media. 10/7/05.

WNL. WKS (TLH)

---

Clinical Note: 10.Oct.2005  
Fecal sample sent for Salmonella PCR. (TLH)

---

Clinical Note: 11.Oct.2005  
Sent 1 cc wholr blood to MU for WNV PCR. (SJV)

---

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Collection Information >>                               Date of Collection: 11.Oct.2005
Health Status: Abnormal                                Time of Collection: 9:00.0
Fasting Time: < 8 hours                               Collected by:
Activity: Active                                       Sample Collection Site: EAR VEIN
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Hematology >>
Analysis Information >>                                Laboratory: ANTECH
Anticoagulant: EDTA                                   Date of Analysis: 12.Oct.2005
Storage: Refrigerated (<48 hours)                   Time of Analysis:
Sample Quality: No quality problems.                  Analysis by:
                                                         Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	8.9		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	3.2		*10 <sup>6</sup> /UL
HEMOGLOBIN	14.7		GM/DL
HEMATOCRIT	41		%
MCV	128		fL
MCH	45.9		uug
MCHC	35.9		gm/dL
SEGMENTED NEUTROPHILS	31	(2.759)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	48	(4.272)	% (*10 <sup>3</sup> /UL)
MONOCYTES	20	(1.780)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	1	(0.089)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	300		*10 <sup>3</sup> /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	89		\UL
ABSOLUTE LYMPHOCYTES	4272		/UL
ABSOLUTE MONOCYTES	1780		/UL
ABSOLUTE SEGS	2759		/UL
FIBRINOGEN	200		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.5		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	36		%
MEAN CORPUSCULAR VOLUME	128		U(3)

```

Comments >>
RBC Morph: Normal

```

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 11.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: 12.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

	GLUCOSE	90	MG/DL
	BLOOD UREA NITROGEN	7	MG/DL
	CREATININE	1.0	MG/DL
	BUN/creatinine ratio	7.00	
	CALCIUM >	11.8	MG/DL
	PHOSPHORUS	5.0	MG/DL
	calcium/phosphorus ratio	2.36	
	SODIUM	133	MEQ/L
	POTASSIUM	4.7	MEQ/L
	sodium/potassium ratio	28.3	
	CHLORIDE	89	MEQ/L
	CHOLESTEROL >>	106	MG/DL
TOTAL PROTEIN (COLORIMETRY)		7.8	GM/DL
ALBUMIN (COLORIMETRY) <		3.0	GM/DL
GLOBULIN (COLORIMETRY) >		4.8	GM/DL
albumin/globulin ratio		0.625	
ASPARTATE AMINOTRANSFERASE		22	IU/L
TOTAL BILIRUBIN		0.1	MG/DL
ALKALINE PHOSPHATASE		86	IU/L
LACTATE DEHYDROGENASE <		376	IU/L
CREATINE PHOSPHOKINASE >>		767	IU/L
ALBUMIN GLOBULIN RATIO		0.6	GM/DL
BUN/CREATININE RATIO		7	MG/DL
GAMMA GLUTAMYLTRANSFERASE		10	IU/L
SODIUM/POTASSIUM RATIO		28	RATIO

```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                           Female
Name: LEA                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====
```

Clinical Note: 12.Oct.2005

UMC Results Accession #:0520954

Date rcv'd: 10/12/05  
Date reported: 10/12/05

PCR Results  
WNV PCR Negative

WNL. WKS (TLH)

---

Clinical Note: 13.Oct.2005

To discontinue alfalfa for all elephants for now. (WKS)

---

Clinical Note: 14.Oct.2005

Texas Vet Med Lab Results Accession#: C052850164  
Date specimens rcv'd: 10/12/05  
Specimen ID: Stool

Test: Salmonella PCR  
Result: Negative

WNL. WKS (TLH)

---



```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)      Accession #: 1669
Common Name: African elephant                      Female
Name: LEA                                           Birth: 17.Sep.1978 (Estimated)
                                                    Age: 27Y Est.
=====
```

```
Clinical Note:                                     17.Oct.2005
Fecal sample sent to MU for culture. (TLH)
```

---

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 18.Oct.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

```

Hematology >>

Analysis Information >>

```

Anticoagulant:
Storage: Not recorded
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	9.6		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	2.9		*10 <sup>6</sup> /UL
HEMOGLOBIN	13.8		GM/DL
HEMATOCRIT	37		%
MCV	128		fL
MCH	> 47.6		uug
MCHC	> 37.3		gm/dL
SEGMENTED NEUTROPHILS	24	(2.304)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	66	(6.336)	% (*10 <sup>3</sup> /UL)
MONOCYTES	9	(0.864)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	1	(0.096)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	INCRS		
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	96		\UL
ABSOLUTE LYMPHOCYTES	6336		/UL
ABSOLUTE MONOCYTES	864		/UL
ABSOLUTE SEGS	2304		/UL
FIBRINOGEN	200		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	48.1		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	37		%
MEAN CORPUSCULAR VOLUME	128		U(3)

Comments >>

RBC Morph: Normal



```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====
```

```
Clinical Note:                                           25.Oct.2005
Fecal sample sent to Texas A&M for Salmonella PCR. (TLH)
```

---

Clinical Pathology Records - Specimen Report  
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 25.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: 26.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	9.0		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	3.1		*10 <sup>6</sup> /UL
HEMOGLOBIN	14.5		GM/DL
HEMATOCRIT	41		%
MCV	132		fL
MCH	> 46.8		uug
MCHC	35.4		gm/dL
SEGMENTED NEUTROPHILS	38	(3.420)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	60	(5.400)	% (*10 <sup>3</sup> /UL)
MONOCYTES	1	(0.090)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	1	(0.090)	% (*10 <sup>3</sup> /UL)
BASOPHILS	0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	314		*10 <sup>3</sup> /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	90		\UL
ABSOLUTE LYMPHOCYTES	5400		/UL
ABSOLUTE MONOCYTES	90		/UL
ABSOLUTE SEGS	3420		/UL
FIBRINOGEN	200		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	46.2		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

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

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

```

```

Date of Collection: 25.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: 26.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

	GLUCOSE	86	MG/DL
	BLOOD UREA NITROGEN	< 5	MG/DL
	CREATININE	1.4	MG/DL
	BUN/creatinine ratio	3.57	
	CALCIUM	< 10.1	MG/DL
	PHOSPHORUS	4.9	MG/DL
	calcium/phosphorus ratio	2.06	
	SODIUM	< 122	MEQ/L
	POTASSIUM	4.9	MEQ/L
	sodium/potassium ratio	24.9	
	CHLORIDE	84	MEQ/L
	CHOLESTEROL	> 93	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	7.6	GM/DL
	ALBUMIN (COLORIMETRY)	< 3.1	GM/DL
	GLOBULIN (COLORIMETRY)	4.5	GM/DL
	albumin/globulin ratio	0.689	
	ASPARTATE AMINOTRANSFERASE	16	IU/L
	TOTAL BILIRUBIN	0.1	MG/DL
	ALKALINE PHOSPHATASE	89	IU/L
	LACTATE DEHYDROGENASE	< 370	IU/L
	CREATINE PHOSPHOKINASE	153	IU/L
	ALBUMIN GLOBULIN RATIO	0.7	GM/DL
	BUN/CREATININE RATIO	4	MG/DL
	GAMMA GLUTAMYLTRANSFERASE	9	IU/L
	SODIUM/POTASSIUM RATIO	25	RATIO

Comments >>

WNL. WKS

=====  
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1669  
Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 27.Oct.2005  
UMC Results Accession #:0521372

Date rcv'd: 10/18/05  
Date reported: 10/27/05

Bacteriology

Aerobic Culture  
Specimen ID: Fecal  
Organism ID:  
No Significant Growth

Comments: The fecal sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS

UMC Results Accession #:0522031

Date rcv'd: 10/27/05  
Date reported: 11/05/05

Bacteriology

Aerobic Culture  
Specimen ID: Produce salmonella screen  
Organism ID:  
No significant growth

Comments: The sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS (TLH)

```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====
```

```
Clinical Note:                                           28.Oct.2005
Texas Vet Med Lab Results                               Accession#: C052990326
Date specimens rcv'd: 10/26/05
Specimen ID: Feces

Test: Salmonella PCR
Result: Negative

WNL.   WKS   (TLH)
```

---

```
Clinical Note:                                           1.Nov.2005
UMC Results                                           Accession #:0521984

Date rcv'd: 10/26/05
Date reported: 11/1/05

PCR Results

WNV PCR                                           Negative

WNL.   WKS   (TLH)
```

---



```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                             Female
Name: LEA                                                Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====
```

```
Clinical Note:                                           16.Nov.2005
Weight: Actual 9101
+/-12.5-15%:
10136-10362# (WKS)
```

---

```
Clinical Note:                                           7.Dec.2005
Vaccinated via 1cc Fort Dodge lot# 1630100A, exp 1/10/2007 in rt
triceps. Did well. (WKS)
```

---

```
Clinical Note:                                           9.Dec.2005
UMC Results           Accession #:0524721
```

Date rcv'd: 12/9/05  
Date reported: 12/20/05

Bacteriology  
Sample: Swab/culturette

Aerobic Culture  
Specimen ID: Fecal  
Specimen ID 2: Produce  
Organism ID:  
    No significant growth

Comments: The samples were negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS (TLH)

---



=====  
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1669  
Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 6.Jan.2006  
UMC Results Accession #:0600325 and 0600324

Date rcv'd: 1/6/06  
Date reported: 1/16/06

Bacteriology

Aerobic Culture  
Specimen ID: Fecal  
Organism ID:  
No significant growth

Comments: The fecal sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS

UMC Results Accession #:0600324

Date rcv'd: 1/6/06  
Date reported: 1/16/06

Bacteriology

Aerobic Culture  
Specimen ID: Produce- Elephant barn  
Organism ID:  
No significant growth

Comments: The produce sample was negative, by culture, for Salmonella using primary and secondary enrichment in conjunction with the use of selective media.

WNL. WKS (TLH)

---







```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1669
Common Name: African elephant                           Female
Name: LEA                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Clinical Note:                                           8.Feb.2006
Performed PLR in both eyes and utilized 6.35mm (known measurement) tag
as comparison. Time from rest to maximal miotic response averaged
>15sec and return to full mydriasis averaged >2 minutes at a fc of
~10-20 ambient light and >600 fc with transillumination. (WKS)

```

```

Submission Data >>
Type: Fecal sample
Purpose: ROUTINE EXAM

```

```

Sample id.: 2006-0124
Date collected: 5.Mar.2006

```

```

Collected from:
Group of specimens housed together.

```

```

Enclosure: EBC

```

```

Examination Data >>
Storage: other storage
Consistency: Not specified
Gross appearance: Not specified

```

```

Date examined: 5.Mar.2006
by: WKS

```

```

Comments >>
Sent to MU for salmonella culture

```

```

Submission Data >>
Type: Fecal sample
Purpose: ROUTINE EXAM

```

```

Sample id.: 2006-0061
Date collected: 6.Mar.2006

```

```

Collected from:
From an individual specimen.

```

```

Examination Data >>
Storage: room temperature
Consistency: Not specified
Gross appearance: Not specified

```

```

Date examined: 6.Mar.2006
by: ANL

```

```

Sample description:
Sample sent to MU for culture for Salmonella.

```

=====  
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1669  
Common Name: African elephant Female  
Name: LEA Birth: 17.Sep.1978 (Estimated)  
Age: 27Y Est.  
=====

Clinical Note: 7.Mar.2006  
UMC Results Accession #: 0605169

Bacteriology results

Aerobic Culture  
Specimen ID: Fecal salmonella screen  
Organism ID:  
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. WKS (TLH)

---

Submission Data >>  
Type: Fecal sample  
Purpose: NOT SPECIFIED

Sample id.: 2006-0077  
Date collected: 4.Apr.2006  
Collected by: SS

Collected from:  
Group of specimens housed together.

Enclosure: EBC

Examination Data >>  
Storage: refrigerated  
Consistency: Not specified  
Gross appearance: Not specified

Date examined: 4.Apr.2006  
by: ANL

Sample description:  
Sent to MU for salmonella culture.