

Medical History Report - Summary for Individual Specimen
RIVERBANKS MAMMALS

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=====
LOXODONTA AFRICANA (no subsp)           Sex: Female           Acc. #: 7802
African elephant                       Age: Unknown> 2Y     Birth: 3.Nov.2003
Name: STAR
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.....2003....

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4.Nov  Obtained from another institution.
        Clinical note recorded. (TM)
5.Nov  Parasitology examination: (PRESHIPMENT EXAMINATION) Fecal sample.
        NO PARASITES SEEN
        Clinical note recorded. (TM)
6.Nov  Parasitology examination: (NOT SPECIFIED) Fecal sample.
        NO PARASITES SEEN
        Clinical note recorded. (TM)
7.Nov  Parasitology examination: (NOT SPECIFIED) Fecal sample.
        NO PARASITES SEEN
        Clinical note recorded. (TM)
8.Nov  Clinical note recorded. (TM)
9.Nov  Clinical note recorded. (KB)
                                           Weight: 3144 Kg ( 6929 Lb)
10.Nov Clinical note recorded. (TM)
12.Nov Clinical note recorded. (TM)
13.Nov Clinical note recorded. (TM)
14.Nov Clinical note recorded. (TM)
18.Nov Clinical note recorded. (KB)

7.Dec  Clinical note recorded. (TM)
9.Dec  Clinical note recorded. (TM)
16.Dec Clinical note recorded. (TM)
17.Dec Clinical note recorded. (TM)
20.Dec Clinical note recorded. (TM)
23.Dec Clinical note recorded. (TM)
27.Dec Clinical note recorded. (TM)

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.....2004....

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7.Jan  Clinical note recorded. (TM)
13.Jan Clinical note recorded. (TM)

4.Feb  Clinical note recorded. (KB)
21.Feb                                     Weight: 3403 Kg ( 7500 Lb)
24.Feb Clinical note recorded. (TM)
25.Feb Clinical note recorded. (TM)

3.Apr                                     Weight: 3435 Kg ( 7571 Lb)
19.Apr Clinical note recorded. (TM)

5.Jun                                     Weight: 3516 Kg ( 7749 Lb)
17.Jun Clinical note recorded. (TM)
19.Jun Clinical note recorded. (TM)

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Medical History Report - Summary for Individual Specimen
RIVERBANKS MAMMALS

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LOXODONTA AFRICANA (no subsp)

African elephant

Name: STAR

Sex: Female

Age: Unknown > 2Y

Acc. #: 7802

Birth: 3.Nov.2003

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.....2004....

- 20.Jun Clinical note recorded. (TM)
- 21.Jun Clinical note recorded. (TM)
- 25.Jun Clinical note recorded. (TM)
- 26.Jun Clinical note recorded. (TM)
- 15.Jul Clinical note recorded. (TM)
- 30.Jul Blood sample: Hematology results.
WBC:9.90 *10³/UL; HCT: 33.7%;
- 5.Aug Blood sample: Chemistry results.
BUN:12 MG/DL;
Clinical note recorded. (KB)
- 2.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:13.60 *10³/UL; HCT: 29.6%; BUN:15 MG/DL;
- 3.Sep Clinical note recorded. (TM)
- 16.Sep Clinical note recorded. (TM)
- 17.Sep Clinical note recorded. (TM)
- 18.Sep Clinical note recorded. (TM)
- 22.Sep
- Weight: 3553 Kg (7831 Lb)
- 2.Oct Clinical note recorded. (TM)
- 3.Oct Clinical note recorded. (TM)
- 7.Oct Blood sample: (Heparin) (10:00.0) Hematology/Chemistry/Serology result
WBC:13.30 *10³/UL; HCT: 32.9%;
- 11.Nov Blood sample: (EDTA) (9:00.0) Hematology/Chemistry/Serology results.
WBC:15.00 *10³/UL; HCT: 39.9%;
- 12.Nov Clinical note recorded. (TM)
- 18.Nov Blood sample: Chemistry results.
BUN:14 MG/DL;
- 19.Nov Clinical note recorded. (TM)
- 22.Nov Parasitology examination: (PRESHIPMENT EXAMINATION) Fecal sample.
NO PARASITES SEEN
Clinical note recorded. (JM)
- 23.Nov Clinical note recorded. (AM)
- 24.Nov Parasitology examination: (PRESHIPMENT EXAMINATION) Fecal sample.
NO PARASITES SEEN
Clinical note recorded. (JM)
- 2.Dec Blood sample: Hematology results.
WBC:13.70 *10³/UL; HCT: 28.9%;
- 3.Dec Clinical note recorded. (KB)
- 4.Dec Clinical note recorded. (KB)

Printed on: 12.Sep.2005

/ISIS/MedARKS/5.40a

Medical History Report - Summary for Individual Specimen
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LOXODONTA AFRICANA (no subsp) Sex: Female Acc. #: 7802
African elephant Age: Unknown> 2Y Birth: 3.Nov.2003
Name: STAR
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.....2004....

- 5.Dec Clinical note recorded. (KB)
- 7.Dec Clinical note recorded. (KB)
- 14.Dec Clinical note recorded. (KB)
- 15.Dec Blood sample: (10:00.0) Hematology/Chemistry/Serology results.
 WBC:10.20 *10³/UL; HCT: 29.0%; BUN:9 MG/DL;
 Clinical note recorded. (KB)
- 16.Dec Clinical note recorded. (KB)
- 17.Dec Removed from collection.

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LOXODONTA AFRICANA (no subsp)

Sex: Female

Acc. #: 7802

African elephant

Age: Unknown> 2Y

Birth: 3.Nov.2003

Name: STAR

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Clinical Note:

4.Nov.2003

Obs: Arrived today around 3PM. Unloaded relatively well, but still feeling the effects of sedatives given earlier for loading. Was pretty stressed and layed down for a bit, but got up and drank a lot of water. (TM)

Clinical Note:

5.Nov.2003

Lab: Quarantine fecal #1 results

O: Direct - NPS

Float - NPS

sent for culture (TM)

Submission Data >>

Type: Fecal sample

Purpose: PRESHIPMENT EXAMINATION

Sample id.: 2003-0297

Date collected: **5.Nov.2003**

Time collected: 10:00

Collected by: RE

Collected from:

From an individual specimen.

Examination Data >>

Storage: other storage

Consistency: Not specified

Gross appearance: Not specified

Date examined: 5.Nov.2003

at: 14:00

by: JM

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN

FLOATATION - ZINC SULFATE NO PARASITES SEEN

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

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Clinical Note:

6.Nov.2003

Lab: Quarantine fecal #2 results

O: Direct - NPS

Float - NPS

sent for culture

Obs: Very distressed in the AM (other girls were in the barn last night also). Ate bran and banamine last night but no hay. She calmed down some after other elephants went onto exhibit. Rubbed a sore spot on the left side of her face last night.

P: Monitor lesion. Other elephants will be left out on exhibit tonight. (TM)

Submission Data >>

Type: Fecal sample

Purpose: NOT SPECIFIED

Sample id.: 2003-0299

Date collected: **6.Nov.2003**

Collected by: JD

Collected from:

From an individual specimen.

Examination Data >>

Storage: other storage

Consistency: Not specified

Gross appearance: Not specified

Date examined: 6.Nov.2003

by: AM

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN

FLOATATION - ZINC SULFATE NO PARASITES SEEN

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

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Clinical Note:

7.Nov.2003

Lab: Quarantine fecal #3 results
O: Direct - NPS
Float - NPS
sent for culture

Obs: Hay consumption increased from yesterday, but still not normal.
Defacated twice and drinking well. Doesn't favor her legs from the
move anymore. Still very anxious about her surroundings. (TM)

Submission Data >>

Type: Fecal sample
Purpose: NOT SPECIFIED

Sample id.: 2003-0298
Date collected: **7.Nov.2003**

Collected from:

From an individual specimen.

Examination Data >>

Storage: other storage
Consistency: Not specified
Gross appearance: Not specified

Date examined: 7.Nov.2003

by: AM

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - ZINC SULFATE NO PARASITES SEEN

Clinical Note:

8.Nov.2003

Obs: Appetite much improved today. Hay consumption has increased and
she shows more interest in produce. She is also responding well
during training sessions. Behavior was good last night with the other
elephants in the barn also. She was calm when keepers arrived this
morning. She entered the ERD to explore, but the scale wasn't working
to keepers unable to get a weight. (TM)

LOXODONTIA AFRICANA (no subspecies)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

Clinical Note:

9.Nov.2003

Fecal Culture: Lex: No Salmonella, Shigella, Campylobacter or Yersinia cultured submitted 11/7/03
Fecal Culture: Lex: No Salmonella, Shigella, Campylobacter or Yersinia cultured submitted 11/6/03
Fecal Culture: Lex: No Salmonella, Shigella, Campylobacter or Yersinia cultured submitted 11/5/03

Obs: Introduced approximately 2 pounds of elephant supplement: she ate it readily. (KB)

Clinical Note:

10.Nov.2003

Obs: Ate at least one bale of hay last night. Stool quality improving. (TM)

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LOXODONTA AFRICANA (no subsp)

Sex: Female

Acc. #: 7802

African elephant

Age: Unknown > 2Y

Birth: 3.Nov.2003

Name: STAR

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Clinical Note:

7.Dec.2003

Obs: Keepers able to spray warm water on the abscess on her left leg.

Oozes throughout the day.

P: Continue warm water therapy until further diagnostics/treatment can be instituted. (TM)

Clinical Note:

9.Dec.2003

Obs: Continues to progress and thrive in protected contact (TM)

Clinical Note:

16.Dec.2003

Obs: Belle (7031) put in stall next to Star (7802) for the first time; approximately 30 minutes. Belle showed aggression towards Star, but Star was calm most of the time. (TM)

Clinical Note:

17.Dec.2003

Obs: Animals (7031 and 7802) in adjoining stalls for approximately 20 minutes again today. Belle showed less signs of aggression, but still some. Elephants will be locked in stalls next to each other tonight. (TM)

Clinical Note:

20.Dec.2003

Obs: Will allow keepers to apply warm water to abscess on left arm. (TM)

Clinical Note:

23.Dec.2003

Obs: Received two warm water flushed on left front leg abscess. After the bath the lesion drains more than prior to it. Visual exam: Purulent material present looks more fluid-like than previously. Some decrease in swelling in area. (TM)

Clinical Note:

27.Dec.2003

Obs: Abscess draining "substantially" during warm water flushes. (TM)

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LOXODONTA AFRICANA (no subsp)

African elephant

Name: STAR

Sex: Female

Age: Unknown> 2Y

Acc. #: 7802

Birth: 3.Nov.2003

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Clinical Note:

7.Jan.2004

Obs: Some behavioral regression with applying warm water to the abscess, not as compliant as usual. (TM)

Clinical Note:

13.Jan.2004

Obs: Put out in the paddock today; did well. (TM)

Clinical Note:

4.Feb.2004

Aerobic culture: Clemson: Streptococcus agalactiae: Resistant to amikacin, neomycin, and tmz, susceptible to all other meds tested - see paper file for details.

This is a chronic draining tract and will be managed with flushing, warm water soaks and manual debridement. (KB)

Clinical Note:

24.Feb.2004

Obs: Keeper starting to instill dilute nolvasan into the wound at the end of the warm water session. (TM)

Clinical Note:

25.Feb.2004

Obs: Keeper reports purulent exudate from abscess less solid today than yesterday. (TM)

Clinical Note:

19.Apr.2004

Keeper obs: Small lump on right side of throat area
P: Monitor (TM)

Clinical Note:

17.Jun.2004

Keeper obs: 7031 and 7802 briefly introduced to each other in indoor holding. Overall it was uneventful and animals interactions were positive. The only moment of concern occurred when Star was trying to return to her stall and Belle was blocking the door. Star was backing into Belle generating some concern and Belle pushed back several times. They were able to be separated to their correct stalls with no problems. (TM)

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LOXODONTA AFRICANA (no subsp)

African elephant

Name: STAR

Sex: Female

Age: Unknown > 2Y

Acc. #: 7802

Birth: 3.Nov.2003

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Clinical Note:

Keeper obs: Behavior off today; not attentive to keepers and would
take longer to come to keepers.

P: Monitor. (TM)

19.Jun.2004

Clinical Note:

Keeper obs: Seems more aware of keepers presence and shifts stations
in more reliably but still pacing in stall and paddock quite a bit.

Appetite still good, fecal output less than usual, but not bad. (TM)

20.Jun.2004

Clinical Note:

Keeper obs: Still pacing in stall and paddock. Shifting well and
appetite good. (TM)

21.Jun.2004

Clinical Note:

Keeper obs: 7031 and 7802 introduced again. Very produced and
animals remained together for approximately 15 minutes. Separation
carried out easily. It appeared the introduction occurred without
generating anxiety but Star (7802) was hesitant to sift in PM
indicating she was not confident with the process. PM stall
arrangement had to be changed. (TM)

25.Jun.2004

Clinical Note:

Keeper obs: 7802 and 7336 introduced. All went as planned and no
aggressive interactions occurred between them. 7336 is on the bottom
of the pcking order and she was submissive to 7802. (TM)

26.Jun.2004

Clinical Note:

Keeper obs: Introduced to SJ1899 successfully and then allowed on
exhibit with all elephants; everything went well. (TM)

15.Jul.2004

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3516 Kg on 5.Jun.2004
Manual restraint used.

Date of Collection: 30.Jul.2004
Time of Collection:
Collected by:

Hematology >>

Analysis Information >>

Anticoagulant:
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 30.Jul.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	9.9		*10 ³ /UL
RED BLOOD CELL COUNT	3.12		*10 ⁶ /UL
HEMOGLOBIN	13.7		GM/DL
HEMATOCRIT	< 33.7		%
MCV	<< 108		fL
MCH	43.9		uug
MCHC	>> 40.7		gm/dL
SEGMENTED NEUTROPHILS	48	(4.752)	% (*10 ³ /UL)
LYMPHOCYTES	< 13	(1.287)	% (*10 ³ /UL)
MONOCYTES	> 38	(3.762)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.099)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	INCR		
PLATELET COUNT	606		*10 ³ /UL

Comments >>

Fibrinogen: 239 mg/dl

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female
Age: Unknown > 2Y

Acc. #: 7802
Birth: 3.Nov.2003

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5.Aug.2004

Clinical Note:

LAB: Monthly sample
CHEM (LEX) Mammalian: Glu=90, Na+=127, K+=5.0, Cl=92, CO2=21, anion
gap=14, BUN=12, Creat=1.4, Ca++=10.0, Phos=5.2, TP=7.1, Alb=3.2,
Glob=3.9, Chol=91, AST=21, ALT=17, alk phos=79, GGTP=19, LDH=393,
CPK=63, bili (total)=<0.1, bili (direct)=0.0. (KB)

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female
Age: Unknown > 2Y
Acc. #: 7802
Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3516 Kg on 5.Jun.2004
Manual restraint used.

Date of Collection: 5.Aug.2004
Time of Collection:
Collected by:

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: LEXINGTON HOSP
Date of Analysis: 5.Aug.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

GLUCOSE	90	MG/DL
BLOOD UREA NITROGEN	12	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	8.57	
CALCIUM	< 10.0	MG/DL
PHOSPHORUS	5.2	MG/DL
calcium/phosphorus ratio	1.92	
SODIUM	127	MEQ/L
POTASSIUM	5.0	MEQ/L
sodium/potassium ratio	25.4	
CHLORIDE	92	MEQ/L
CHOLESTEROL	> 91	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.1	GM/DL
ALBUMIN (COLORIMETRY)	3.2	GM/DL
GLOBULIN (COLORIMETRY)	3.9	GM/DL
albumin/globulin ratio	0.821	
ASPARTATE AMINOTRANSFERASE	21	IU/L
ALANINE AMINOTRANSFERASE	> 17	IU/L
TOTAL BILIRUBIN	<0.1	MG/DL
DIRECT BILIRUBIN	0.0	MG/DL
ALKALINE PHOSPHATASE	79	IU/L
LACTATE DEHYDROGENASE	< 393	IU/L
CREATINE PHOSPHOKINASE	63	IU/L
ANION GAP	14	
CARBON DIOXIDE	< 21	MMOL/L
GAMMA GLUTAMYLTRANSFERASE	> 19	IU/L

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3516 Kg on 5.Jun.2004
Manual restraint used.

Date of Collection: 2.Sep.2004
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 2.Sep.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	>	13.6		*10 ³ /UL
RED BLOOD CELL COUNT		2.79		*10 ⁶ /UL
HEMOGLOBIN		12.4		GM/DL
HEMATOCRIT	<<	29.6		%
MCV	<<	106		fL
MCH		44.4		uug
MCHC	>>	41.9		gm/dL
SEGMENTED NEUTROPHILS	>	39	(5.304)	% (*10 ³ /UL)
LYMPHOCYTES		46	(6.256)	% (*10 ³ /UL)
MONOCYTES		15	(2.040)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT			INCR	
PLATELET COUNT		635		*10 ³ /UL

Comments >>

HCT(In house): 33%; Fibrinogen: 287 mg/dl

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female
Age: Unknown > 2Y
Acc. #: 7802
Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3516 Kg on 5.Jun.2004
Manual restraint used.

Date of Collection: 2.Sep.2004
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 2.Sep.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

GLUCOSE	86	MG/DL
BLOOD UREA NITROGEN >	15	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	10.7	
CALCIUM >	11.7	MG/DL
PHOSPHORUS >>	6.7	MG/DL
calcium/phosphorus ratio	1.75	
SODIUM	131	MEQ/L
POTASSIUM	4.6	MEQ/L
sodium/potassium ratio	28.5	
CHLORIDE	89	MEQ/L
MAGNESIUM	2.2	MG/DL
CHOLESTEROL >>	106	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.9	GM/DL
TOTAL PROTEIN (REFRACTOMETER)	7.6	GM/DL
ALBUMIN (COLORIMETRY)	3.2	GM/DL
GLOBULIN (COLORIMETRY) >	4.7	GM/DL
albumin/globulin ratio	0.681	
ASPARTATE AMINOTRANSFERASE	16	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	72	IU/L
CREATINE PHOSPHOKINASE	141	IU/L
ALBUMIN GLOBULIN RATIO	0.7	GM/DL
GAMMA GLUTAMYLTRANSFERASE	15	IU/L

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female
Age: Unknown > 2Y

Acc. #: 7802
Birth: 3.Nov.2003

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3.Sep.2004

Clinical Note:

Lab: Monthly CBC and Chemistry results (Antech)
O: In house Hct/tprotein 33/7.6
hgb 12.4, Hct 29.6, rbc 2.79, MCV 106, MCH 44.4, MCHC 41.9, platelet
count 635, platelet estimate increased, wbc 13600, pmn's (39%) 5304,
lymphocytes (46%) 6256, monocytes (15%) 2040
glucose 86, BUN 15, Cr 1.4, tprotein 7.9, albumin 3.2, t.bili 0.1, ALP
72, AST 16, cholesterol 106, Ca 11.7, P 6.7, Na 131, K 4.6, Cl 89, a/g
0.7, globulin 4.7, CPK 141, GGTP 15, Mg 2.2, fibrinogen 287
A: Slight hyperphosphatemia as well as anemia. These findings are
consistent with what we are seeing in the other females in the herd.
Significance is unknown at this time.
P: Recheck in one month. (TM)

Clinical Note:

Procedure: Observed first trunk wash for TB testing (TM)

16.Sep.2004

Clinical Note:

Procedure: Observed second trunk wash for TB testing (TM)

17.Sep.2004

Clinical Note:

Procedure: Observed third trunk wash for TB testing (TM)

18.Sep.2004

Clinical Note:

Keeper obs: Climbed over the log into the back corner near the pool
and tore up a speaker and some pipes. Brought inside to clean up the
area and let out later. Went over to that area with ease. (TM)

2.Oct.2004

Clinical Note:

Obs: Continues to climb over long in the back corner near the pool.
(TM)

3.Oct.2004

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female
Age: Unknown > 2Y
Acc. #: 7802
Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3553 Kg on 22.Sep.2004
Manual restraint used.

Date of Collection: 7.Oct.2004
Time of Collection: 10:00.0
Collected by: JD
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: Heparin
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 7.Oct.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	>	13.3		*10 ³ /UL
RED BLOOD CELL COUNT		3.05		*10 ⁶ /UL
HEMOGLOBIN		13.7		GM/DL
HEMATOCRIT	<	32.9		%
MCV	<<	108		fL
MCH		44.9		uug
MCHC	>>	41.6		gm/dL
SEGMENTED NEUTROPHILS	>	41	(5.453)	% (*10 ³ /UL)
LYMPHOCYTES		37	(4.921)	% (*10 ³ /UL)
MONOCYTES		11	(1.463)	% (*10 ³ /UL)
EOSINOPHILS		1	(0.133)	% (*10 ³ /UL)
BASOPHILS	>>	10	(1.330)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT		INCR		
PLATELET COUNT		639		*10 ³ /UL

Comments >>

HCT(In house): 36%; Fibrinogen: 308 mg/dl

Chemistry >>

Analysis Information >>

Chemistry Sample: Plasma (Heparin)
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: IN-HOUSE
Date of Analysis: 7.Oct.2004
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

TOTAL PROTEIN (REFRACTOMETER) 8.0 GM/DL

Clinical Pathology Records - Specimen Report

RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female
Age: Unknown > 2Y
Acc. #: 7802
Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3553 Kg on 22.Sep.2004
Manual restraint used.

Date of Collection: 11.Nov.2004
Time of Collection: 9:00.0
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 11.Nov.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT > 15.0 *10^3/UL
RED BLOOD CELL COUNT 3.28 *10^6/UL
HEMOGLOBIN 14.8 GM/DL
HEMATOCRIT 39.9 %
MCV 122 fL
MCH 45.1 uug
MCHC > 37.1 gm/dL
SEGMENTED NEUTROPHILS > 41 (6.150) % (*10^3/UL)
LYMPHOCYTES > 57 (8.550) % (*10^3/UL)
MONOCYTES 1 (0.150) % (*10^3/UL)
EOSINOPHILS 1 (0.150) % (*10^3/UL)
ESTIMATED PLATELET COUNT ADEQ
PLATELET COUNT 355 *10^3/UL

Comments >>

HCT(In house): 40%

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: IN-HOUSE
Date of Analysis: 11.Nov.2004
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

TOTAL PROTEIN (REFRACTOMETER) < 7.2 GM/DL

=====

LOXODONTA AFRICANA (no subsp)

Sex: Female

Acc. #: 7802

African elephant

Age: Unknown> 2Y

Birth: 3.Nov.2003

Name: STAR

=====

Clinical Note:

12.Nov.2004

Lab: Monthly bloodwork results (Antech)

o: In house Hct/tprotein 40/7.2

hgb 14.8, Hct 39.9, rbc 3.28, MCV 122, MCH 45.1, MCHC 37.1, platelet
count 355, platelet estimate adequate, wbc 15000, pmn's (41%) 6150,
lymphocytes (57%) 8550, monocytes (1%) 150, eosinophils (1%) 150

A: High normal wbc count; animal clinically normal.

P: Recheck opportunistically. (TM)

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

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=====
LOXODONTA AFRICANA (no subsp)           Sex: Female           Acc. #: 7802
African elephant                         Age: Unknown> 2Y     Birth: 3.Nov.2003
Name: STAR
=====

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Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3553 Kg on 22.Sep.2004
Manual restraint used.

Date of Collection: 18.Nov.2004

Time of Collection:

Collected by:

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH

Date of Analysis: 18.Nov.2004

Time of Analysis:

Analysis by: LAB
Automated analysis.

Tests and Results >>

	GLUCOSE	88	MG/DL
	BLOOD UREA NITROGEN	> 14	MG/DL
	CREATININE	1.4	MG/DL
	BUN/creatinine ratio	10.0	
	CALCIUM	10.7	MG/DL
	PHOSPHORUS	5.5	MG/DL
	calcium/phosphorus ratio	1.95	
	SODIUM	130	MEQ/L
	POTASSIUM	4.5	MEQ/L
	sodium/potassium ratio	28.9	
	CHLORIDE	92	MEQ/L
	MAGNESIUM	2.2	MG/DL
	CHOLESTEROL	>> 106	MG/DL
TOTAL PROTEIN (COLORIMETRY)		8.0	GM/DL
ALBUMIN (COLORIMETRY)		3.5	GM/DL
GLOBULIN (COLORIMETRY)		4.5	GM/DL
albumin/globulin ratio		0.778	
ASPARTATE AMINOTRANSFERASE		14	IU/L
TOTAL BILIRUBIN		0.1	MG/DL
ALKALINE PHOSPHATASE		88	IU/L
CREATINE PHOSPHOKINASE		173	IU/L
ALBUMIN GLOBULIN RATIO		0.8	GM/DL
GAMMA GLUTAMYLTRANSFERASE		13	IU/L

=====

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

=====

Clinical Note:

19.Nov.2004

Lab: Monthly chemistry results (Antech)
O: glucose 88, BUN 14, Cr 1.4, tprotein 8.0, albumin 3.5, t.bili 0.1,
ALP 88, AST 14, cholestserol 106, Ca 10.7, P 5.5, Na 130, K 4.5, Cl
92, a/g 0.8, globulin 4.5, CPK 173, GGTP 13, Mg 2.2
A: Values are within normal limits for this species. (TM)

Clinical Note:

22.Nov.2004

Lab:Fecal (in house): preship #1
Direct: nps
Float: nps (JM)

Submission Data >>

Type: Fecal sample
Purpose: PRESHIPMENT EXAMINATION

Sample id.: 2004-0313
Date collected: 22.Nov.2004
Time collected: 9:45
Collected by: AM

Collected from:

From an individual specimen.

Enclosure: ELEPHANT

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 22.Nov.2004
by: AM

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - ZINC SULFATE NO PARASITES SEEN

Clinical Note:

23.Nov.2004

Fecal (in house):preship #2
Direct: nps
Float: nps (AM)

=====

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

=====

Clinical Note:

24.Nov.2004

Lab:Fecal (in house): preship fecal #3
Direct: nps
Float: nps (JM)

Submission Data >>

Type: Fecal sample
Purpose: PRESHIPMENT EXAMINATION

Sample id.: 2004-0320
Date collected: 24.Nov.2004
Collected by: AM

Collected from:

From an individual specimen.

Enclosure: ELEPHANT

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 24.Nov.2004
by: AM

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - ZINC SULFATE NO PARASITES SEEN

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

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=====
LOXODONTA AFRICANA (no subsp)           Sex: Female           Acc. #: 7802
African elephant                         Age: Unknown> 2Y      Birth: 3.Nov.2003
Name: STAR
=====

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Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3553 Kg on 22.Sep.2004
Manual restraint used.

Date of Collection: **2.Dec.2004**
Time of Collection:
Collected by:

Hematology >>

Analysis Information >>

Anticoagulant:
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: **ANTECH**
Date of Analysis: **2.Dec.2004**
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	>	13.7		*10 ³ /UL
RED BLOOD CELL COUNT	<	2.43		*10 ⁶ /UL
HEMOGLOBIN	<	11.3		GM/DL
HEMATOCRIT	<<	28.9		%
MCV		119		fL
MCH		46.5		uug
MCHC	>>	39.1		gm/dL
SEGMENTED NEUTROPHILS	>	42	(5.754)	% (*10 ³ /UL)
LYMPHOCYTES		44	(6.028)	% (*10 ³ /UL)
MONOCYTES		10	(1.370)	% (*10 ³ /UL)
EOSINOPHILS		1	(0.137)	% (*10 ³ /UL)
BASOPHILS	>>	3	(0.411)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT		INCR		
PLATELET COUNT		469		*10 ³ /UL

=====

LOXODONTA AFRICANA (no subsp)

African elephant

Name: STAR

Sex: Female

Age: Unknown > 2Y

Acc. #: 7802

Birth: 3.Nov.2003

=====

Clinical Note:

3.Dec.2004

CBC (Antech and in-house) mammal: hgb=11.3, hct=28.9, wbc=13.7,
rbc=2.43, mcv=119, mch=46.5, mchc=39.1, plt count=469, plt est=inc,
neuts/hets=5754, bands=0, lymphs=6028, monos=1370, eos=137, basos=411.
(KB)

Clinical Note:

4.Dec.2004

Fecal Culture: Lex: No Salmonella, Shigella, Campylobacter, E. coli
O157:H7 or Yersinia cultured (KB)

Clinical Note:

5.Dec.2004

Fecal Culture: Lex: No Salmonella, Shigella, Campylobacter, E. coli
O157:H7 or Yersinia cultured

Reduced normal fecal flora

A: This is a human lab, the qualifier above may not be valid. (KB)

Clinical Note:

7.Dec.2004

Trunk Wash for Mycobacterial Culture NVSL: Negative sample submitted
on 9/16/04

Trunk Wash for Mycobacterial Culture NVSL: Negative sample submitted
on 9/17/04

Trunk Wash for Mycobacterial Culture NVSL: Negative sample submitted
on 9/18/04 (KB)

Clinical Note:

14.Dec.2004

This animal is described as "off", shifting, laying down etc.

She appears BAR, but looks uncomfortable

P: Collect feces and blood for analysis. (KB)

Clinical Note:

15.Dec.2004

HCT/TS (in house): HCT=34, TS=8.2 (KB)

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female Acc. #: 7802
Age: Unknown > 2Y Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3553 Kg on 22.Sep.2004
Manual restraint used.

Date of Collection: 15.Dec.2004
Time of Collection: 10:00.0
Collected by: JD
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant:
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 15.Dec.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.2		*10 ³ /UL
RED BLOOD CELL COUNT	3.05		*10 ⁶ /UL
HEMOGLOBIN	12.4		GM/DL
HEMATOCRIT <<	29.0		%
MCV <<	95.1		fL
MCH	40.7		uug
MCHC >>	42.8		gm/dL
SEGMENTED NEUTROPHILS >	50	(5.100)	% (*10 ³ /UL)
LYMPHOCYTES <	8	(0.816)	% (*10 ³ /UL)
MONOCYTES >	34	(3.468)	% (*10 ³ /UL)
BASOPHILS >>	8	(0.816)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	INCR		
PLATELET COUNT	644		*10 ³ /UL

Comments >>

HCT(In house): 34%: Fibrinogen: 333 mg/dl

Clinical Pathology Records - Specimen Report
RIVERBANKS MAMMALS

LOXODONTA AFRICANA (no subsp)
African elephant
Name: STAR

Sex: Female
Age: Unknown > 2Y
Acc. #: 7802
Birth: 3.Nov.2003

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3553 Kg on 22.Sep.2004
Manual restraint used.

Date of Collection: 15.Dec.2004
Time of Collection: 10:00.0
Collected by: JD
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 15.Dec.2004
Time of Analysis:
Analysis by: LAB
Automated analysis.

Tests and Results >>

GLUCOSE	84	MG/DL
BLOOD UREA NITROGEN	9	MG/DL
CREATININE	1.6	MG/DL
BUN/creatinine ratio	5.63	
CALCIUM >>	119	MG/DL
PHOSPHORUS	5.5	MG/DL
calcium/phosphorus ratio	21.6	
SODIUM >	134	MEQ/L
POTASSIUM	4.3	MEQ/L
sodium/potassium ratio	31.2	
CHLORIDE	87	MEQ/L
MAGNESIUM	2.0	MG/DL
CHOLESTEROL >>	121	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.2	GM/DL
TOTAL PROTEIN (REFRACTOMETER)	8.2	GM/DL
ALBUMIN (COLORIMETRY)	3.7	GM/DL
GLOBULIN (COLORIMETRY)	4.5	GM/DL
albumin/globulin ratio	0.822	
ASPARTATE AMINOTRANSFERASE	20	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE	93	IU/L
CREATINE PHOSPHOKINASE	449	IU/L
ALBUMIN GLOBULIN RATIO	0.8	GM/DL
GAMMA GLUTAMYLTRANSFERASE	17	IU/L

=====

LOXODONTA AFRICANA (no subsp)

Sex: Female

Acc. #: 7802

African elephant

Age: Unknown > 2Y

Birth: 3.Nov.2003

Name: STAR

=====

Clinical Note:

16.Dec.2004

Elephant Panel, Antech

1. CHEM: glu=84, BUN=9, Cr=1.6, t.p.=8.2, alb=3.7, bili
(total)=0.2, alk phos=93, AST=20, chol=121, Ca+=11.9, phos=5.5,
Na+=134, K+=4.3, Cl-=87, alb/glob=0.8, glob=4.5, CPK=449, GGTP=17.

2. Mg=2.0.

3. CBC: hgb=12.4, hct=29.0, wbc=10.4, rbc=3.05, mcv=95, mch=40.7,
mchc=42.8, plt count=644, plt est=inc, neuts/hets=5100, bands=0,
lymphs=816, monos=3468, eos=0, basos=816.

4. FIB=333

Monocytosis is half of what it was 2 weeks ago. Reccomend careful
monitoring. (KB)

Clinical Pathology Records Report - ISIS/In-House Reference Values
 RIVERBANKS MAMMALS

Scientific name: **LOXODONTA AFRICANA**
 Common Name: **African elephant**

		ISIS Values		Min.	Max.	(N)
		Mean	S.D.			
WBC	*10 ³ /UL	10.50 ±	2.648	4.500	22.10	(1544)
RBC	*10 ⁶ /UL	3.15 ±	0.40	2.05	4.80	(1480)
HGB	GM/DL	13.7 ±	1.6	7.0	26.1	(1522)
HCT	%	39.5 ±	4.6	27.0	56.0	(1984)
MCH	MG/DL	43.6 ±	3.0	34.8	66.8	(1454)
MCHC	uug	34.7 ±	2.0	18.4	57.9	(1501)
MCV	fL	125.8 ±	8.1	91.1	190.0	(1466)
SEGS	*10 ³ /UL	3.146 ±	1.695	0.000	11.80	(1224)
BANDS	*10 ³ /UL	0.843 ±	0.799	0.000	6.530	(605)
LYMPHOCYTES	*10 ³ /UL	4.913 ±	2.532	0.022	17.40	(1236)
MONOCYTES	*10 ³ /UL	1.513 ±	1.651	0.000	9.480	(1175)
EOSINOPHILS	*10 ³ /UL	0.225 ±	0.273	0.000	2.898	(885)
BASOPHILS	*10 ³ /UL	0.049 ±	0.081	0.000	0.525	(464)
NRBC	/100 WBC	0 ±	1	0	3	(92)
PLATE. CNT.	*10 ³ /UL	417 ±	245	74	1380	(215)
RETICS	%	0.0 ±	0.0	0.0	0.0	(7)
GLUCOSE	MG/DL	84 ±	15	38	174	(1437)
BUN	MG/DL	10 ±	3	0	22	(1458)
CREAT.	MG/DL	1.5 ±	0.5	0.0	11.0	(1405)
URIC ACID	MG/DL	0.2 ±	0.4	0.0	5.1	(466)
CA	MG/DL	10.9 ±	0.6	8.1	15.3	(1434)
PHOS	MG/DL	4.9 ±	0.8	2.8	8.2	(1291)
NA	MEQ/L	129 ±	4	107	182	(1353)
K	MEQ/L	4.8 ±	0.5	3.3	7.6	(1368)
CL	MEQ/L	88 ±	4	67	129	(1323)
IRON	MCG/DL	79 ±	42	8	174	(54)
MG	MG/DL	1.97 ±	0.75	0.65	4.20	(98)
HCO3	MMOL/L	25.1 ±	3.6	13.0	31.0	(44)
CHOL	MG/DL	68 ±	17	0	234	(1290)
TRIG	MG/DL	64 ±	31	0	179	(1124)
T. PROT. (C)	GM/DL	7.7 ±	0.6	5.8	10.5	(1261)
T. PROT. (R)	GM/DL	8.0 ±	0.4	7.4	8.6	(8)
ALBUMIN (C)	GM/DL	3.6 ±	0.4	2.4	5.2	(1145)
GLOBULIN (C)	GM/DL	4.1 ±	0.5	2.6	6.4	(1135)
AST (SGOT)	IU/L	24 ±	10	6	93	(1398)
ALT (SGPT)	IU/L	7 ±	6	0	40	(547)
T. BILI.	MG/DL	0.2 ±	0.1	0.0	1.0	(1187)
D. BILI	MG/DL	0.1 ±	0.1	0.0	0.3	(154)
I. BILI.	MG/DL	0.1 ±	0.1	0.0	0.9	(152)
AMYLASE	SU	3075 ±	1552	0	7918	(241)
ALK. PHOS.	IU/L	128 ±	61	32	441	(1404)
LDH	IU/L	988 ±	568	157	4306	(1099)

Clinical Pathology Records Report - ISIS/In-House Reference Values
RIVERBANKS MAMMALS

=====
Scientific name: **LOXODONTA AFRICANA**
Common Name: **African elephant**
=====

		ISIS Values					
		Mean	S.D.	Min.	Max.	(N)	
CPK	IU/L	256 ±	196	18	1884	(247)	
OSMOLARITY	MOSMOL/L	259 ±	4	246	272	(689)	
ALPHA GLOB.	MG/DL	0.7 ±	0.0	0.7	0.7	(1)	
ALPHA-1 GLOB	MG/DL	0.7 ±	0.2	0.2	0.8	(8)	
ALPHA-2 GLOB	GM/DL	1.0 ±	0.3	0.8	1.6	(8)	
BETA GLOB.	MG/DL	1.2 ±	0.8	0.6	1.7	(2)	
Body Temperature:		39.0 ±	0.0	39.0	39.0	(1)	
CO2	MMOL/L	27.0 ±	3.1	12.0	61.4	(840)	
ESR	MM/HR	27 ±	0	27	27	(1)	
FIBRINOGEN	GM/DL	238 ±	139	0	600	(70)	
GGT	IU/L	12 ±	5	0	37	(389)	
LIPASE	U/L	7 ±	7	0	45	(66)	
PROGESTERONE	NG/DL	144.8 ±	216.4	0.060	1005	(266)	
TESTOSTERONE	NG/ML	1.010 ±	1.117	0.220	1.800	(2)	
TT4 (RIA)	MCG/DL	8.2 ±	1.3	6.9	9.5	(3)	
TT3 (RIA)	NG/DL	209.0 ±	0.0	209.0	209.0	(1)	
ALBUMIN (E)	GM/DL	4.4 ±	0.3	4.1	4.9	(7)	
GAMMA GLOB	GM/DL	1.6 ±	0.4	0.7	1.9	(7)	

VETERINARY CERTIFICATE OF EXAMINATION FOR MORTALITY INSURANCE

EXOTIC ANIMAL (S)

AGENCY: LESTER KALMANSON AGENCY, INC. / MAITLAND, FLORIDA U.S.A.
 PHONE: 407-645-5000 FAX: 407-645-2810

IMPORTANT

THIS IS NOT A BINDER.
 /*

- 1) PLACE EXAMINED: RBI METHOD OF EXAM: VISUAL PHYSICAL
- 2) MODE OF TRANSPORT: AIR LAND SEA; NAME OF TRANSPORT AGENT: N/A {PROVIDE FULL DETAIL(S)}

CAREFUL OBSERVATION & INQUIRY SHALL BE MADE AS TO HOUSING CONDITIONS AND THE PRESENCE OF CONTAGIOUS DISEASE. THIS CERTIFICATE SHALL BE COMPLETED BY THE EXAMINING VETERINARIAN TO THE BEST OF HIS / HER ABILITY AS A LICENSED VETERINARIAN. THE COMPLETED CERTIFICATE SHALL BE FORWARDED TO THE INSURANCE AGENCY (LKA) / COMPANY WITHOUT DELAY.

I, Keith G Benson D.V.M. DO HEREBY CERTIFY THAT I AM A GRADUATE VETERINARIAN HOLDING A CURRENT (VALID) LICENSE AS SUCH TO PRACTICE IN THE STATE(S) OF South Carolina & THAT I HAVE EXAMINED THE FOLLOWING ON THE 25 DAY OF May 2004.

- | 3) ANIMAL I.D., TATOO BAND, IMPLANT, TAG | NAME, COMMON OR SCIENTIFIC SPECIES | PHYSICAL DESC., AGE, SEX, WEIGHT, COLOR |
|--|------------------------------------|---|
| A) <u>7802</u> | <u>Star African Elephant</u> | <u>22yr F, 3435 kg, grey</u> |
| B) | | |
| C) | | |
| D) | | |

4) OWNER: Montgomery Zoo

NAME	ADDRESS	ZIP	PHONE #

5) CONSIGNEE:

NAME	ADDRESS	ZIP	PHONE #

- 6) EYES CLINICALLY NORMAL ? YES () NO
- 7) IF FEMALE, IS SHE PREGNANT ? () YES NO
- 8) HAS ANY SURGERY BEEN PERFORMED ON THE ANIMAL(S) ? () YES NO
 IF YES, PROVIDE DETAILS: not that I am aware of.
 (IF KNOWN) -



VETERINARY CERTIFICATE OF EXAMINATION FOR MORTALITY INSURANCE CONTINUED

9) ANY LAMENESS AND/OR FAULTY CONFORMATION AND/OR OTHER ABNORMAL CONDITIONS ? () YES (X) NO IF YES, PROVIDE FULL DETAILS:

10) GIVE NAME & DOSAGE OF ALL DRUGS GIVEN PRIOR OR DURING EXAMINATION OR TRANSPORT (INCLUDING ANTIBIOTICS, RESTRAINT, TRANQUILIZER(S), MEDICATION & / OR IMMOBILIZING DRUGS USED)

PRODUCT: N/A DOSAGE: SITE:

11) DATE LAST WORMED: unknown METHOD & DRUG USED:

12) ANY PARASITE PROBLEMS (PAST/PRESENT)? () YES (X) NO IF YES, PROVIDE DETAILS: not to my knowledge

13) PULSE & RESPIRATION NORMAL? (X) YES () NO

14) E.I.A. RESULT FOR EQUINE: N/A POSITIVE NEGATIVE

15) IN YOUR OPINION OR TO YOUR KNOWLEDGE, ARE THERE ANY MEDICAL FACTS THAT SHOULD BE BROUGHT TO THE ATTENTION OF THE INSURANCE CARRIER? () YES (X) NO IF YES, PROVIDE DETAILS:

16) HAVE THE CURRENT U.S.D.A. VETERINARIAN RECORDS BEEN VIEWED BY YOU FOR THIS / THESE ANIMAL(S) ? (EXPLAIN !)

EXCEPT AS NOTED ABOVE, I HEREBY CERTIFY THAT I HAVE PERSONALLY INSPECTED THE ANIMAL(S) DESCRIBED HEREON AND FIND THEM TO BE SOUND AND HEALTHY FOR INSURANCE PURPOSES AND FREE OF ANY VISIBLE /KNOWN SYMPTOMS OF INFECTIOUS, CONTAGIOUS AND/OR ANY COMMUNICABLE DISEASES.

5.25.04 DATE

[Signature] D.V.M. SIGNATURE

500 W. 1st St Pky ADDRESS

PERMIT(S) OBTAINED (IF REQUIRED) () YES () NO

803-779-8717 PHONE NUMBER

STATE LICENSE # 2006

NOTE: THE V.C. MUST BE CURRENT WITHIN 7 DAYS OF INCEPTION DATE !

SEND YOUR COMPLETED / SIGNED CERTIFICATE A.S.A.P. TO:

LESTER KALMANSON AGENCY, INC. / C.O MITCHEL K. P. O. BOX 940008 / 235 S. MAITLAND AVE. # 201 MAITLAND, FLORIDA 32794-0008 U.S.A PHONE: 407-645-5000 / FAX: 407-645-2810

1600 Dayton Road Ames, Iowa 50010
Phone (515) 663-7266 Fax (515) 663-7397
Tuberculosis Laboratory Test Report Page 1 of 1

Accession: 50218

Date Received: 6/08/2000

Establishment No.: SCHEAL3

HEALTH POINTE VET CLINIC
2158 E. MAIN STREET

Owner:
HOLLYWILD ZOO/DAVID MEEKS
City: WELLFORD

DUNCAN, SC 29334
Fax:

State: SC

Preservation:
Retain Tag:

Species Elephant

NVSL ID	Case#	Sample ID	Animal ID
157558	004308	15-62	[REDACTED]

Mycobacteria Isolation

Diagnosis: No Isolation Made

DISTRIBUTION:
Submitter
Laboratories
8/14/2000

Approved By: Janet Payeur
National Veterinary Services

Clemson Veterinary Diagnostic Center

Accession: 13127-03
Report date: 9-22-03/WYS
Owner: Hollywild Animal Park (864) 472-2038
Lyman, SC

Livestock and Poultry Health Division
PO Box 102406
Columbia, SC 29224-2406
(803) 788-2260
FAX: (803) 699-8910

HEALTHPOINTE VET CLINIC (Acct: 2962)
ATTN: HURLBERT, SUE ANN
740 SHOALS ROAD
DUNCAN, SC 29334

(864) 486 8177 Hurlbert.

**SUBMISSION
SUMMARY**

Taken: not given
Received: 5-20-03

Species	Animals	Tests	Completed
Misc	1	1	1

(864) 486-8006 (Please fax results)

**** FINAL REPORT ****

MICROBIOLOGY

ANIMAL ID: 1: (not provided), Misc, Elephant
Completed: 5-22-03/9:34a

Sample: Swab/Culturette

SALMONELLA CULTURE ONLY 5-22-03/9:34a

RESULT: Negative

*Dr. Hurlbert.
vnitas@sprintmail.com*

Sep-22-03 12:18P

P.02

Clemson Veterinary Diagnostic Center

Accession: 13356-03
Report date: 9-22-03/WYS
Owner: Hollywood Zoo (864) 472-2038
Wellford, SC

Livestock and Poultry Health Division
PO Box 102406
Columbia, SC 29224-2406
(803) 788-2260
FAX: (803) 699-8910

HEALTHPOINTE VET CLINIC (Acct: 2962)
ATTN: HURLBERT, SUE ANN
740 SHOALS ROAD
DUNCAN, SC 29334

SUBMISSION Taken: not given
SUMMARY Received: 5-21-03

Species	Animals	Tests	Completed
Misc	1	1	1

(864) 486-8006 (Please fax results)

**** FINAL REPORT ****

MICROBIOLOGY

ANIMAL ID: 1: Elephant, Misc, Elephant, 22y
Completed: 5-29-03/9:55a

Sample: Swab/Culturette

SALMONELLA CULTURE ONLY 5-29-03/9:55a

RESULT Negative

Clemson Veterinary Diagnostic Center

Accession: 14240-03
Report date: 9-22-03/WYS
Owner: Hollywood Zoo (864) 472-2038
Wellford, SC

Livestock and Poultry Health Division
PO Box 102406
Columbia, SC 29224-2406
(803) 788-2260
FAX: (803) 699-8910

HEALTHPOINTE VET CLINIC (Acct: 2962)
ATTN: HURLBERT, SUE ANN
740 SHOALS ROAD
DUNCAN, SC 29334

SUBMISSION Taken: not given
SUMMARY Received: 6-3-03

Species	Animals	Tests	Completed
Misc	1	1	1

(864) 486-8006 (Please fax results)

**** FINAL REPORT ****

MICROBIOLOGY

ANIMAL ID: 1: (not provided), Misc. Elephant
Completed: 6-10-03/9:34a

Sample: Swab/Culturette

SALMONELLA CULTURE ONLY 6-10-03/9:34a

RESULT: Negative

HealthPointVetClinic
7/1/2003 12:00 PM

PHONE NO. : 8644868226
Replix NT Page 003 of 4

Jul. 01 2003 06:58:41 F3

National Veterinary Services Laboratories
INDICATED BY PRECEDING LABEL INFORMATION

FEDERAL RELAY SERVICE (Voice, TTY/ASCII/Spansish)
1-800-877-8333

Accession: 251524

Date Received: 7/23/2003

Establishment No.: SCHEALI
HEALTH POINTS VET CLINIC
740 BRUALS ROAD

Referral Number:
Owner: HOLLYWILD BOO:DAVID MEEKS
City: WELLFORD
State: SC

DUNCAN, SC 29334
Fax: 8644868226

Preservation:

Retain Tag:

Species: Elephant

MYSL ID	Serial	Sample ID	Animal ID
745174	034067	4/22/03	"LUNA" 15-62 Mycobacteria Isolation Diagnosis: No Isolation Made Tissues SWAB

334-240-4916
F...
P. ...

DISPOSITION:
Submitter
6/30/2002

Approved by: Beth & Harris
National Veterinary Services Laboratories

THE MONTGOMERY ZOO

FACSIMILE TRANSMITTAL SHEET

TO: Keith Benson DVM FROM: Don Gillespie
 COMPANY: Riverbanks Zoo DATE: 9/24/03
 FAX NUMBER: 1-803-253-6381 TOTAL NO. OF PAGES INCLUDING COVER: 7
 PHONE NUMBER: 8-2 SENDER'S REFERENCE NUMBER: 334-240-4940
 RE: Elephant Test SENDER'S FAX NUMBER: 334-240-4970

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Keith,
 Here are the available test results.
 Hard to read but three negative
Salmonella cultures and negative
 TB culture in April.
 Call if you have any
 questions,
 Don
 Gillespie



Department of Pathology and Laboratory Medicine
2720 Sunset Blvd
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Phone (803) 791-2400 Fax (803) 791-2406

Pathologists: Ervin B. Shaw, MD John B. Carter, MD Kitt R. McMaster, MD Beverly W. Daniel, MD
E. Jayne Moffatt, MD X. Karen Xu, MD, PhD William R. Armstrong, MD

PT. NAME: ZOO,A ELEPHANT 7802 DOB: 00/00/0000
PATIENT ID: ZO-7802 AGE: SEX: U
ACCT NO: H00011302874 PHYSICIAN: Benson,Kaith,DVM
LOC: ZO

11/06/03 STOOL CULTURE ZOO SP
UNK ACC. NO.: H18800 TRANSPORT TIME: UNKNO FINAL 11/09/2003
SPECIMEN DESCRIPTION: STOOL
SPECIAL REQUESTS: YERSINIA

CULTURE: 1. NO SALMONELLA, SHIGELLA, OR CAMPYLOBACTER ISOLATED
 2. NO YERSINIA ISOLATED

km



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 E. Jayne Moffatt, MD X. Karen Xu, MD, PhD William R. Armstrong, MD

PT. NAME: ZOO,A ELEPHANT 7802 DOB: 00/00/0000
 PATIENT ID: ZO-7802 AGE: SEX: U
 ACCT NO: H00011302874 PHYSICIAN: Benson,Keith,DVM
 LOC: ZO

11/05/03 STOOL CULTURE ZOO SP TRANSPORT TIME: UNKNO FINAL 11/09/2003
 UNK ACC. NO.: W26902 STOOL
 SPECIMEN DESCRIPTION: YERSINIA
 SPECIAL REQUESTS:

- CULTURE:
1. NO SALMONELLA, SHIGELLA, OR CAMPYLOBACTER ISOLATED
 2. NO YERSINIA ISOLATED



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E. Jayne Moffatt, MD X. Karen Xu, MD, PhD William R. Armstrong, MD

PT. NAME: ZOO,A ELEPHANT 7802 DOB: 00/00/0000
PATIENT ID: ZO-7802 AGE: SEX: U
ACCT NO: H00011302874 PHYSICIAN: Moore, Tiffany A., DV
LOC: ZO

11/07/03 STOOL CULTURE ZOO SP
1100 ACC. NO.: F66681 TRANSPORT TIME: 8.0 FINAL 11/09/2003
SPECIMEN DESCRIPTION: STOOL
SPECIAL REQUESTS: YERSINIA

CULTURE: 1. NO SALMONELLA, SHIGELLA, OR CAMPYLOBACTER ISOLATED
 2. NO YERSINIA ISOLATED

✓
EM

Clemson Veterinary Diagnostic Center

Accession: 2182-04
Report date: 2-4-04/DNP
Owner:

Livestock and Poultry Health Division
PO Box 102406
Columbia, SC 29224-2406
(803) 788-2260
FAX: (803) 699-8910

RIVERBANKS ZOOLOGICAL PARK (Acct: 286)
ATTN: BENSON, KEITH
PO BOX 1060
COLUMBIA, SC 29202-1060

**SUBMISSION
SUMMARY**

Taken: not given
Received: 2-2-04

Species	Animals	Tests	Completed
Misc	1	3	3

(803) 253-6381 (Please fax results)

**** FINAL REPORT ****

MICROBIOLOGY

ANIMAL ID: 1: 7802, Misc, Elephant, F
Completed: 2-4-04/9:12a

Sample: Swab/Culturette

AEROBIC BACTERIAL CULTURE 2-4-04/9:12a

SPECIMEN ID: Swab

CM

ORGANISM

Streptococcus agalactiae

CA ANTIBIOTIC PANEL 2-4-04/9:12a

ORGANISM ID: Streptococcus agalactiae

ANTIBIOTIC:	RESULT
Amikacin:	Resistant
Ampicillin:	Susceptible
Augmentin:	Susceptible
Ceftiofur:	Susceptible
Cephalothin:	Susceptible
Chloramphenicol:	Susceptible
Clindamycin:	Susceptible
Enrofloxacin:	Susceptible
Erythromycin:	Susceptible
Gentamicin:	Susceptible
Lincomycin:	Susceptible
Neomycin:	Resistant
Orbifloxacin:	Susceptible
Penicillin:	Susceptible
Piperacillin:	Not Tested
Tetracycline:	Susceptible
Trimeth-Sulfadi:	Resistant

Accession: 2182-04
(continued)

Veterinarian: Benson, Keith

Owner:

Page: 2

CA ANTIBIOTIC PANEL 2-4-04/9:12a (Continued)
Triple Sulfa: Resistant

KS ✓

National Veterinary Services Laboratories
1800 Dayton Road Ames, Iowa 50010
Phone (515) 663-7266 Fax (515) 663-7397
Tuberculosis Laboratory Test Report Page 1 of 1

FEDERAL RELAY SERVICE (Voice/TTY/ASCII/Spanish)
1-800-877-8339

Accession: 335069 Date Received: 9/21/2004

Establishment No.: SCBENS

Referral Number:

BENSON, DR. KEITH

Owner: RIVERBANKS ZOO

500 WILDLIFE PARKWAY

City: COLUMBIA

State: SC

COLUMBIA, SC 29210
Fax:

Preservation:

Retain Tag:

Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
1098849	048784	1-9/17/04	7802
			Specimen Submitted
			TRUNK WASH

UM ✓

Mycobacteria Isolation
Diagnosis: No Isolation Made

DISTRIBUTION:
Submitter
11/16/2004

Approved By: Jeffrey T. Nelson
National Veterinary Services Laboratories

National Veterinary Services Laboratories
1800 Dayton Road Ames, Iowa 50010
Phone (515) 663-7266 Fax (515) 663-7397
Tuberculosis Laboratory Test Report Page 1 of 1

FEDERAL RELAY SERVICE (Voice/TTY/ASCII/Spanish)
1-800-877-8339

Accession: 335068

Date Received: 9/21/2004

Establishment No.: SCBENS

Referral Number:

BENSON, DR. KEITH

Owner: RIVERBANKS ZOO

500 WILDLIFE PARKWAY

City: COLUMBIA

COLUMBIA, SC 29210

State: SC

Fax:

Preservation:

Retain Tag:

Species: Elephant *KW*

NVSL ID	Case#	Sample ID	Animal ID
-----	-----	-----	-----
1098845	048783	1-9/16/04	7802
		Tissues	
		TRUNK WASH	

Mycobacteria Isolation
Diagnosis: No Isolation Made

DISTRIBUTION:

Submitter
11/16/2004

Approved By: Jeffrey T. Nelson
National Veterinary Services Laboratories

National Veterinary Services Laboratories
1800 Dayton Road Ames, Iowa 50010
Phone (515) 663-7266 Fax (515) 663-7397
Tuberculosis Laboratory Test Report Page 1 of 1

FEDERAL RELAY SERVICE (Voice/TTY/ASCII/Spanish)
1-800-877-8339

Accession: 335070

Date Received: 9/21/2004

Establishment No.: SCBENS

Referral Number:

BENSON, DR. KEITH

Owner: RIVERBANKS ZOO

500 WILDLIFE PARKWAY

City: COLUMBIA

COLUMBIA, SC 29210

State: SC

Fax:

Preservation:

Retain Tag:

Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
1098852	048785	3-9/18/04	7802
		Tissues	
		TRUNK WASH	

Mycobacteria Isolation
Diagnosis: No Isolation Made

DISTRIBUTION:

Submitter
11/16/2004

Approved By: Jeffrey T. Nelson
National Veterinary Services Laboratories



Department of Pathology and Laboratory Medicine
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E. Jayne Moffatt, MD X. Karen Xu, MD, PhD William R. Armstrong, MD Jennifer B. Jones, MD

PT. NAME: ZOO,A ELEPHANT 7802 DOB: 01/01/2004
 PATIENT ID: ZO-7802 AGE: 11M SEX: U
 ACCT NO: HD0014746978 PHYSICIAN: Benson, Keith, DVM
 LOC: ZO

12/04/04 STOOL CULTURE ZOO SP
 UNK ACC. NO.: M38617 TRANSPORT TIME: UNKNO FINAL 12/09/2004
 SPECIMEN DESCRIPTION: STOOL

- CULTURE:
1. NO SALMONELLA, SHIGELLA, OR CAMPYLOBACTER ISOLATED
 2. NO YERSINIA ISOLATED
 3. NO E. COLI H 0157 ISOLATED



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PT. NAME: ZOO,A ELEPHANT 7802

DOB: 01/01/2004

PATIENT ID: ZO-7802

AGE: 11M SEX: U

ACCT NO: H00014746978

PHYSICIAN: Benson, Keith, DVM

LOC: ZO

12/05/04 STOOL CULTURE ZOO SP

UNK ACC. NO.: M38613

TRANSPORT TIME: UNKNO FINAL 12/12/2004

SPECIMEN DESCRIPTION:

STOOL

SPECIAL REQUESTS:

NONE

CULTURE:

1. NO SALMONELLA, SHIGELLA, OR CAMPYLOBACTER ISOLATED
2. NO YERSINIA ISOLATED
3. NO E. COLI 0157 ISOLATED

A handwritten signature, possibly 'KM', with a checkmark above it, located to the right of the culture results.



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E. Jayne Moffatt, MD X. Karen Xu, MD, PhD William R. Armstrong, MD Jennifer B. Jones, MD

PT. NAME: ZOO,A ELEPHANT 7802 DOB: 01/01/2004
 PATIENT ID: ZO-7802 AGE: 11M SEX: U
 ACCT NO: H00014746978 PHYSICIAN: Benson, Keith, DVM
 LOC: ZO

12/03/04 STOOL CULTURE ZOO SP
 1200 ACC. NO.: F22053 TRANSPORT TIME: 10.9 FINAL 12/05/2004
 SPECIMEN DESCRIPTION: STOOL
 SPECIAL REQUESTS: NONE

- CULTURE:
1. NO SALMONELLA, SHIGELLA, OR CAMPYLOBACTER ISOLATED
 2. NO YERSINIA OR ESCHERICHIA COLI O157:H7 ISOLATED
 3. REDUCED NORMAL FECAL FLORA

K15 ✓