

Medical History Report - Summary for Individual Specimen
CLEVELAND METROPARKS ZOO

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: 970601
African elephant	Age: 41Y Est.	Birth: 10.Jun.1967
Name: JO		

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.....2007....

12.Mar Blood sample: (EDTA) (12:25.0) Hematology/Chemistry/Serology results.
WBC:13.00 *10³/UL; HCT: 40.0%; BUN:6 MG/DL;

27.May Weight: 4011 Kg (8840 Lb)

13.Jun PROBLEM: Vaccination - Tetanus Toxoid
Vaccination - West Nile Virus Vaccination
Clinical note recorded. (MFH)

18.Jun PROBLEM: Labwork - Microbiology (onset)
Clinical note recorded. (LED)

20.Jun PROBLEM: Labwork - Microbiology #2 (onset)
Clinical note recorded. (LED)

22.Jun PROBLEM: Labwork - Microbiology #3 (onset)
Clinical note recorded. (LED)

9.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN

3.Aug Blood sample: (EDTA) (10:20.0) Hematology/Chemistry/Serology results.
WBC:10.80 *10³/UL; HCT: 37.0%; BUN:7 MG/DL;

23.Aug PROBLEM: Labwork - Microbiology (resolved)
Labwork - Microbiology #2 (resolved)
Labwork - Microbiology #3 (resolved)

17.Sep Parasitology examination: (DIAGNOSTIC EXAMINATION) Fecal sample.
NO PARASITES SEEN

.....2008....

9.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN

4.Mar Blood sample: (EDTA) (13:03.0) Hematology/Chemistry/Serology results.
WBC:9.60 *10³/UL; HCT: 38.0%; BUN:8 MG/DL;

5.May Blood sample: (EDTA) (8:55.0) Hematology/Chemistry/Serology results.
WBC:10.40 *10³/UL; HCT: 35.5%; BUN:9 MG/DL;

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

- page 1 -

LOXODONTA AFRICANA (no subsp)
African elephant
Name: JO

Sex: Female
Age: 41Y Est.

Acc. #: 970601
Birth: 10.Jun.1967

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3854 Kg on 25.Feb.2007
Manual restraint used.

Date of Collection: 12.Mar.2007
Time of Collection: 12:25.0
Collected by: MRZ
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 12.Mar.2007
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	13.0		*10 ³ /UL
RED BLOOD CELL COUNT	2.86		*10 ⁶ /UL
HEMOGLOBIN	13.3		GM/DL
HEMATOCRIT	40		%
MCV	> 140		fL
MCH	46.5		uug
MCHC	33.3		gm/dL
SEGMENTED NEUTROPHILS	34	(4.420)	% (*10 ³ /UL)
LYMPHOCYTES	> 63	(8.190)	% (*10 ³ /UL)
MONOCYTES	3	(0.390)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	513		
LYMPHOCYTE ABSOLUTE	8.19		
MONOCYTE ABSOLUTE	0.39		
SEG. NEUTROPHIL ABSOLUTE	4.42		

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

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Name: JO

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Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3854 Kg on 25.Feb.2007
Manual restraint used.

Date of Collection: 12.Mar.2007
Time of Collection: 12:25.0
Collected by: MRZ
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 12.Mar.2007
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	<<	51	MG/DL
BLOOD UREA NITROGEN	<	5.8	MG/DL
CREATININE		1.6	MG/DL
BUN/creatinine ratio		3.63	
CALCIUM	<<	9.4	MG/DL
PHOSPHORUS		4.1	MG/DL
calcium/phosphorus ratio		2.29	
SODIUM	<	124	MEQ/L
POTASSIUM		4.5	MEQ/L
sodium/potassium ratio		27.6	
CHLORIDE	<	82	MEQ/L
CHOLESTEROL	>	102	MG/DL
TOTAL PROTEIN (COLORIMETRY)	<	6.7	GM/DL
ALBUMIN (COLORIMETRY)	<<	2.6	GM/DL
GLOBULIN (COLORIMETRY)		4.1	GM/DL
albumin/globulin ratio		0.634	
ASPARTATE AMINOTRANSFERASE	>	37	IU/L
ALANINE AMINOTRANSFERASE		2	IU/L
TOTAL BILIRUBIN	>	0.4	MG/DL
ALKALINE PHOSPHATASE		70	IU/L
GAMMA GLUTAMYLTRANSFERASE	>	20	IU/L

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African elephant
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Clinical Note:

13.Jun.2007

Problem: Vaccination - Tetanus Toxoid ; Vaccination - West Nile Virus
Vaccination

History: Annual Tetanus and West Nile vaccinations.

Vaccination: Tetanus Toxoid 1ml IM front left brachium(Professional
Biological#174B; Exp.30Mar08).

Vaccination: West Nile Virus 1.0 ml killed IM left chest (Fort Dodge
1666148A Exp.15Oct08).

(MFH VME III) (MFH)

Clinical Note:

18.Jun.2007

Problem: Labwork - Microbiology

Culture: Trunk wash sent to National Veterinary Services Lab for
Mycobacteria TB testing, results received 23Aug2007 - Negative. (LED)

Clinical Note:

20.Jun.2007

Problem: Labwork - Microbiology ; Labwork - Microbiology #2

Culture: Trunk was sent to National Veterinary Services Lab for
Mycobacteria TB testing, results received 23Aug2007 - Negative (LED)

Clinical Note:

22.Jun.2007

Problem: Labwork - Microbiology ; Labwork - Microbiology #2 ; Labwork -
Microbiology #3

Culture: Trunk wash sent to National Veterinary Services Lab for
Mycobacteria TB testing, results received 23Aug2007 - Negative (LED)

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: JO

Sex: Female
Age: 41Y Est.

Acc. #: 970601
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Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0893
Date collected: 9.Jul.2007
Collected by: MMS

Collected from:

From an individual specimen.

Enclosure: PAH BULL

Examination Data >>

Storage: refrigerated
Consistency: soft
Gross appearance: Typical

Date examined: 11.Jul.2007

by: CDP

Tests & Results >>

FLOTATION-ZINC NO PARASITES SEEN
GROSS/MACROSCOPIC EXAMINATION NO PARASITES SEEN

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

LOXODONTA AFRICANA (no subsp)
African elephant
Name: JO

Sex: Female
Age: 41Y Est.

Acc. #: 970601
Birth: 10.Jun.1967

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3928 Kg on 24.Jun.2007
Manual restraint used.

Date of Collection: 3.Aug.2007
Time of Collection: 10:20.0
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 3.Aug.2007
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.8		*10 ³ /UL
RED BLOOD CELL COUNT	< 2.65		*10 ⁶ /UL
HEMOGLOBIN	12.3		GM/DL
HEMATOCRIT	37.0		%
MCV	> 140		fL
MCH	46.4		uug
MCHC	33.2		gm/dL
SEGMENTED NEUTROPHILS	41	(4.428)	% (*10 ³ /UL)
LYMPHOCYTES	51	(5.508)	% (*10 ³ /UL)
MONOCYTES	8	(0.864)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	450		
LYMPHOCYTE ABSOLUTE	5.51		
MONOCYTE ABSOLUTE	0.86		
SEG. NEUTROPHIL ABSOLUTE	4.43		

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

LOXODONTA AFRICANA (no subsp)
African elephant
Name: JO

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Acc. #: 970601
Birth: 10.Jun.1967

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3928 Kg on 24.Jun.2007
Manual restraint used.

Date of Collection: 3.Aug.2007
Time of Collection: 10:20.0
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 3.Aug.2007
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	<<	46	MG/DL
BLOOD UREA NITROGEN		7.4	MG/DL
CREATININE		1.0	MG/DL
BUN/creatinine ratio		7.40	
CALCIUM	<<	8.3	MG/DL
PHOSPHORUS	<<	2.6	MG/DL
calcium/phosphorus ratio		3.19	
SODIUM	<	123	MEQ/L
POTASSIUM		4.6	MEQ/L
sodium/potassium ratio		26.7	
CHLORIDE	<<	77	MEQ/L
CHOLESTEROL		69	MG/DL
TOTAL PROTEIN (COLORIMETRY)	<<	5.4	GM/DL
ALBUMIN (COLORIMETRY)	<<	2.7	GM/DL
GLOBULIN (COLORIMETRY)	<<	2.7	GM/DL
albumin/globulin ratio		1.00	
ASPARTATE AMINOTRANSFERASE		24	IU/L
ALANINE AMINOTRANSFERASE		4	IU/L
TOTAL BILIRUBIN		0.1	MG/DL
ALKALINE PHOSPHATASE	<	22	IU/L
GAMMA GLUTAMYLTRANSFERASE		17	IU/L

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: JO
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Sex: Female Acc. #: 970601
Age: 41Y Est. Birth: 10.Jun.1967
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Parasitology Examination:

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

Sample id.: 2007-1196
Date collected: 17.Sep.2007
Collected by: MMS

Collected from:
From an individual specimen.

Enclosure: PAEI/S01

Examination Data >>
Storage: refrigerated
Consistency: soft
Gross appearance: Atypical

Date examined: 17.Sep.2007
by: CDP

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOTATION-ZINC NO PARASITES SEEN
GROSS/MACROSCOPIC EXAMINATION NO PARASITES SEEN

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

Sample id.: 2008-0032
Date collected: 9.Jan.2008
Collected by: MMS

Collected from:
From an individual specimen.

Enclosure: PAEI/S01

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

Date examined: 11.Jan.2008
by: KAR

Tests & Results >>

FLOTATION-ZINC NO PARASITES SEEN
GROSS/MACROSCOPIC EXAMINATION NO PARASITES SEEN

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

LOXODONTA AFRICANA (no subsp)
African elephant
Name: JO

Sex: Female
Age: 41Y Est.

Acc. #: 970601
Birth: 10.Jun.1967

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 3967 Kg on 27.Jan.2008
Manual restraint used.

Date of Collection: 4.Mar.2008
Time of Collection: 13:03.0
Collected by: MZ
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 4.Mar.2008
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	9.6		*10 ³ /UL
RED BLOOD CELL COUNT	< 2.39		*10 ⁶ /UL
HEMOGLOBIN	12.7		GM/DL
HEMATOCRIT	38		%
MCV >>	159		fL
MCH >>	53.1		uug
MCHC	33.4		gm/dL
SEGMENTED NEUTROPHILS	40	(3.840)	% (*10 ³ /UL)
LYMPHOCYTES	56	(5.376)	% (*10 ³ /UL)
MONOCYTES	2	(0.192)	% (*10 ³ /UL)
EOSINOPHILS	2	(0.192)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	606		
EOSINOPHIL ABSOLUTE	0.19		
LYMPHOCYTE ABSOLUTE	5.38		
MONOCYTE ABSOLUTE	0.19		
SEG. NEUTROPHIL ABSOLUTE	3.84		

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

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African elephant
Name: JO

Sex: Female
Age: 41Y Est.

Acc. #: 970601
Birth: 10.Jun.1967

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 3967 Kg on 27.Jan.2008
Manual restraint used.

Date of Collection: 4.Mar.2008
Time of Collection: 13:03.0
Collected by: MZ
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 4.Mar.2008
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	96.7	MG/DL
BLOOD UREA NITROGEN	7.8	MG/DL
CREATININE	1.5	MG/DL
BUN/creatinine ratio	5.20	
CALCIUM	> 11.8	MG/DL
PHOSPHORUS	4.5	MG/DL
calcium/phosphorus ratio	2.62	
SODIUM	132	MEQ/L
POTASSIUM	4.5	MEQ/L
sodium/potassium ratio	29.3	
CHLORIDE	89	MEQ/L
CHOLESTEROL	73	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.3	GM/DL
ALBUMIN (COLORIMETRY)	< 2.9	GM/DL
GLOBULIN (COLORIMETRY)	4.4	GM/DL
albumin/globulin ratio	0.659	
ASPARTATE AMINOTRANSFERASE	17	IU/L
ALANINE AMINOTRANSFERASE	4	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	< 50	IU/L
ALBUMIN GLOBULIN RATIO	> 0.7	GM/DL
GAMMA GLUTAMYLTRANSFERASE	16	IU/L

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

LOXODONTA AFRICANA (no subsp)
African elephant
Name: JO

Sex: Female
Age: 41Y Est.

Acc. #: 970601
Birth: 10.Jun.1967

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 4126 Kg on 27.Apr.2008
Manual restraint used.

Date of Collection: 5.May.2008
Time of Collection: 8:55.0
Collected by: MEL
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 5.May.2008
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.4		*10 ³ /UL
RED BLOOD CELL COUNT	< 2.6		*10 ⁶ /UL
HEMOGLOBIN	< 11.8		GM/DL
HEMATOCRIT	35.5		%
MCV	> 137		fL
MCH	45.4		uug
MCHC	33.2		gm/dL
SEGMENTED NEUTROPHILS	32	(3.328)	% (*10 ³ /UL)
LYMPHOCYTES	65	(6.760)	% (*10 ³ /UL)
MONOCYTES	2	(0.208)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.104)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	523		
EOSINOPHIL ABSOLUTE	0.10		
LYMPHOCYTE ABSOLUTE	6.76		
MONOCYTE ABSOLUTE	0.21		
SEG. NEUTROPHIL ABSOLUTE	3.33		

Clinical Pathology Records - Specimen Report
CLEVELAND METROPARKS ZOO

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African elephant
Name: JO

Sex: Female
Age: 41Y Est.

Acc. #: 970601
Birth: 10.Jun.1967

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 4126 Kg on 27.Apr.2008
Manual restraint used.

Date of Collection: 5.May.2008
Time of Collection: 8:55.0
Collected by: MEL
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

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

Laboratory: PETLABS-MAM
Date of Analysis: 5.May.2008
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	<	65	MG/DL
BLOOD UREA NITROGEN		9.2	MG/DL
CREATININE		1.3	MG/DL
BUN/creatinine ratio		7.08	
CALCIUM	<<	9.6	MG/DL
PHOSPHORUS		5.6	MG/DL
calcium/phosphorus ratio		1.71	
SODIUM		127	MEQ/L
POTASSIUM		4.9	MEQ/L
sodium/potassium ratio		25.9	
CHLORIDE		88	MEQ/L
CHOLESTEROL		83	MG/DL
TOTAL PROTEIN (COLORIMETRY)	<	7.0	GM/DL
ALBUMIN (COLORIMETRY)	<	2.9	GM/DL
GLOBULIN (COLORIMETRY)		4.1	GM/DL
albumin/globulin ratio		0.707	
ASPARTATE AMINOTRANSFERASE		16	IU/L
ALANINE AMINOTRANSFERASE		1	IU/L
TOTAL BILIRUBIN		0.1	MG/DL
ALKALINE PHOSPHATASE	<	47	IU/L
GAMMA GLUTAMYLTRANSFERASE	>	20	IU/L

Clinical Pathology Records Report - ISIS/In-House Reference Values
CLEVELAND METROPARKS ZOO

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

		ISIS Values			In-House Values				
		Mean	S.D.	(N)	Mean	S.D.	Min.	Max.	(N)
WBC	*10 ³ /UL	10.50 ±	2.648	(1544)	10.17 ±	2.56	3.200	17.00	(24)
RBC	*10 ⁶ /UL	3.15 ±	0.40	(1480)	3.053 ±	0.441	1.790	4.260	(159)
HGB	GM/DL	13.7 ±	1.6	(1522)	14.15 ±	1.71	10.20	20.20	(158)
HCT	%	39.5 ±	4.6	(1984)	38.58 ±	4.56	23.60	51.60	(247)
MCH	MG/DL	43.6 ±	3.0	(1454)	46.29 ±	2.73	35.20	54.51	(162)
mchc		34.7 ±	2.0	(1501)	35.53 ±	1.70	26.69	48.10	(162)
MCV	fL	125.8 ±	8.1	(1466)	130.5 ±	8.5	108.5	171.8	(162)
SEGS	*10 ³ /UL	3.146 ±	1.695	(1224)	3.649 ±	1.374	0.575	7.650	(247)
BANDS	*10 ³ /UL	0.843 ±	0.799	(605)	0.041 ±	0.101	0.000	0.636	(201)
LYMPHOCYTES	*10 ³ /UL	4.913 ±	2.532	(1236)	3.506 ±	1.712	0.510	8.300	(247)
MONOCYTES	*10 ³ /UL	1.513 ±	1.651	(1175)	2.860 ±	1.581	0.000	7.812	(245)
EOSINOPHILS	*10 ³ /UL	0.225 ±	0.273	(885)	0.089 ±	0.113	0.000	0.554	(239)
BASOPHILS	*10 ³ /UL	0.049 ±	0.081	(464)	0.000 ±	0.000	0.000	0.000	(218)
METAMYELOCYT	*10 ³ /UL				0.000 ±	0.000	0.000	0.000	(104)
META	*10 ³ /UL				0.000 ±	0.000	0.000	0.000	(8)
NRBC	/100 WBC	0 ±	1	(92)	0.000 ±	0.000	0.000	0.000	(95)
PLATE. EST.					0.000 ±	0.000	0.000	0.000	(1)
PLATE. CNT.	*10 ³ /UL	417 ±	245	(215)	411.0 ±	0.0	411.0	411.0	(1)
RETICS	%	0.0 ±	0.0	(7)					
GLUCOSE	MG/DL	84 ±	15	(1437)	82.80 ±	15.96	36.00	122.0	(231)
BUN	MG/DL	10 ±	3	(1458)	8.648 ±	1.840	4.000	14.00	(237)
CREAT.	MG/DL	1.5 ±	0.5	(1405)	1.477 ±	0.350	0.700	2.400	(23)
URIC ACID	MG/DL	0.2 ±	0.4	(466)	0.016 ±	0.037	0.000	0.100	(96)
CA	MG/DL	10.9 ±	0.6	(1434)	11.14 ±	0.59	9.900	12.90	(230)
PHOS	MG/DL	4.9 ±	0.8	(1291)	4.776 ±	0.747	3.100	7.000	(178)
NA	MEQ/L	129 ±	4	(1353)	128.0 ±	2.6	121.0	136.0	(178)
K	MEQ/L	4.8 ±	0.5	(1368)	4.702 ±	0.379	4.100	6.100	(175)
CL	MEQ/L	88 ±	4	(1323)	87.49 ±	2.10	82.00	93.00	(175)
IRON	MCG/DL	79 ±	42	(54)					
MG	MG/DL	1.97 ±	0.75	(98)	2.338 ±	0.518	1.600	3.200	(8)
HCO3	MMOL/L	25.1 ±	3.6	(44)	26.50 ±	2.68	22.00	31.00	(16)
CHOL	MG/DL	68 ±	17	(1290)	75.81 ±	13.84	48.00	114.0	(210)
TRIG	MG/DL	64 ±	31	(1124)	50.29 ±	15.37	5.600	91.00	(179)
T. PROT. (C)	GM/DL	7.7 ±	0.6	(1261)	5.253 ±	3.643	0.000	8.900	(224)
T. PROT. (R)	GM/DL	8.0 ±	0.4	(8)	7.694 ±	0.974	6.400	9.800	(95)
ALBUMIN (C)	GM/DL	3.6 ±	0.4	(1145)	1.991 ±	1.723	0.000	4.000	(171)
GLOBULIN (C)	GM/DL	4.1 ±	0.5	(1135)	2.730 ±	2.853	0.000	8.200	(146)
AST (SGOT)	IU/L	24 ±	10	(1398)	25.39 ±	9.07	5.000	50.00	(231)
ALT (SGPT)	IU/L	7 ±	6	(547)	6.910 ±	7.323	0.000	60.00	(166)
T. BILI.	MG/DL	0.2 ±	0.1	(1187)	0.190 ±	0.059	0.100	0.300	(169)
D. BILI.	MG/DL	0.1 ±	0.1	(154)					
I. BILI.	MG/DL	0.1 ±	0.1	(152)					

Clinical Pathology Records Report - ISIS/In-House Reference Values
CLEVELAND METROPARKS ZOO

Scientific name: *LOXODONTA AFRICANA*

Common Name: African elephant

		ISIS Values			In-House Values				
		Mean	S.D.	(N)	Mean	S.D.	Min.	Max.	(N)
AMYLASE	U/L	3075 ±	1552	(241)	3134 ±	1169	0.000	4950	(126)
ALK. PHOS.	IU/L	128 ±	61	(1404)	140.7 ±	61.9	7.400	324.0	(229)
LDH	IU/L	988 ±	568	(1099)	546.0 ±	116.1	330.0	819.0	(95)
CPK	IU/L	256 ±	196	(247)	323.3 ±	97.8	172.0	468.0	(21)
OSMOLARITY	MOSMOL/L	259 ±	4	(689)					
A/G RATIO	GM/DL				0.201 ±	0.318	0.000	0.850	(128)
ALPHA GLOB.	MG/DL	0.7 ±	0.0	(1)					
ALPHA-1 GLOB	MG/DL	0.7 ±	0.2	(8)					
ALPHA-2 GLOB	MG/DL	1.0 ±	0.3	(8)					
ANION					17.00 ±	2.97	12.00	22.00	(16)
BETA GLOB.	G/DL	1.2 ±	0.8	(2)					
BETA+GAMMA	MG/L				0.000 ±	0.000	0.000	0.000	(2)
BUN/CREAT	MG/DL				5.645 ±	1.649	1.000	9.500	(199)
Body Temperature:		39.0 ±	0.0	(1)					
CO2	MMOL/L	27.0 ±	3.1	(840)					
ESR	MM/HR	27 ±	0	(1)					
FIBRINOGEN	MG/DL	238 ±	139	(70)	100.0 ±	0.0	100.0	100.0	(1)
GGT	IU/L	12 ±	5	(389)	11.44 ±	3.93	0.000	21.00	(164)
LIPASE	U/L	7 ±	7	(66)					
PROGESTERONE	NG/DL	144.8 ±	216.4	(266)	0.405 ±	0.357	0.100	1.300	(97)
red cell dis %					15.73 ±	0.77	14.60	16.90	(12)
TESTOSTERONE	NG/ML	1.010 ±	1.117	(2)					
TOTAL T4	MCG/DL	8.2 ±	1.3	(3)					
T3 (RIA)	NG/ML	209.0 ±	0.0	(1)					
VIT E TOCOPH	MG/L				0.350 ±	0.071	0.300	0.400	(2)
ALBUMIN (E)	GM/DL	4.4 ±	0.3	(7)					
GAMMA GLOB	GM/DL	1.6 ±	0.4	(7)					
POIKILOCYTES					1.000 ±	0.000	1.000	1.000	(1)