

Report Date  
11/19/2004

**UNIVERSITY OF MISSOURI  
VET MED DIAGNOSTIC LAB  
P.O. BOX 6023**

Page 3 of 5

**COLUMBIA, MO 65205**  
Phone #: 573-862-6811 Fax #: 573-862-1411

Final Report

Accession Number: 04-24389

**BACTERIOLOGY RESULTS**

	SUSCEPT (UG/ML) - 3	SUSCEPT (UG/ML) - 4
AMIKACIN	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMOXI/CLAV	S <=4.0000( 4 - 32 )	S 8.0000( 4 - 32 )
AMPICILLIN	S <=0.2500( 0.25 - 16 )	S 0.5000( 0.25 - 16 )
CEFAZOLIN	S <=2.0000( 2 - 16 )	R >16.0000( 2 - 16 )
CEFOXITIN	S 8.0000( 2 - 16 )	S 4.0000( 2 - 16 )
CEFTIOFUR	S <=0.5000( 0.5 - 4 )	I 4.0000( 0.5 - 4 )
CEPHALOTHIN	S <=2.0000( 2 - 16 )	S 8.0000( 2 - 16 )
CHLORAMPHENICOL	S <=2.0000( 2 - 16 )	S 4.0000( 2 - 16 )
CLINDAMYCIN	S <=0.2500( 0.25 - 2 )	S <=0.2500( 0.25 - 2 )
ENROFLOXACIN	S <=0.5000( 0.5 - 4 )	S 1.0000( 0.5 - 4 )
ERYTHROMYCIN	S <=0.2500( 0.25 - 4 )	S <=0.2500( 0.25 - 4 )
GENTAMICIN	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
IMIPENEM	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
ORBIFLOXACIN	I 2.0000( 1 - 4 )	S <=1.0000( 1 - 4 )
OXACIL 2% NACL	S <=2.0000( 2 - 4 )	S <=2.0000( 2 - 4 )
PENICILLIN	S 0.1200( 0.06 - 8 )	S 1.0000( 0.06 - 8 )
RIFAMPIN	S <=1.0000( 1 - 2 )	S <=1.0000( 1 - 2 )
SPECTINOMYCIN	R 32.0000( 8 - 64 )	I 16.0000( 8 - 64 )
SULFADIMETHOXINE	S <=32.0000( 32 - 256 )	S 64.0000( 32 - 256 )
TETRACYCLINE	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
TICAR/CLAV ACID	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TICARCILLIN	S 16.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TRIMETH/SULFA	S <=0.5000( 0.5 - 2 )	S <=0.5000( 0.5 - 2 )

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**COLUMBIA, MO 65205**  
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**BACTERIOLOGY RESULTS**

	SUSCEPT (UG/ML) - 5	
AMIKACIN	S	8.0000( 4 - 32 )
AMOXI/CLAV	S	<=4.0000( 4 - 32 )
AMPICILLIN	I	2.0000( 0.25 - 16 )
CEFAZOLIN	I	16.0000( 2 - 16 )
CEFOXITIN	R	>16.0000( 2 - 16 )
CEFTIOFUR	R	>4.0000( 0.5 - 4 )
CEPHALOTHIN	I	16.0000( 2 - 16 )
CHLORAMPHENICOL	S	4.0000( 2 - 16 )
CLINDAMYCIN	S	<=0.2500( 0.25 - 2 )
ENROFLOXACIN	R	>4.0000( 0.5 - 4 )
ERYTHROMYCIN	S	<=0.2500( 0.25 - 4 )
GENTAMICIN	S	<=1.0000( 1 - 8 )
IMIPENEM	S	<=1.0000( 1 - 8 )
ORBIFLOXACIN	R	>4.0000( 1 - 4 )
OXACIL 2% NACL	S	<=2.0000( 2 - 4 )
PENICILLIN	I	2.0000( 0.06 - 8 )
RIFAMPIN	I	2.0000( 1 - 2 )
SPECTINOMYCIN	I	16.0000( 8 - 64 )
SULFADIMETHOXINE	S	<=32.0000( 32 - 256 )
TETRACYCLINE	R	>8.0000( 1 - 8 )
TICAR/CLAV ACID	S	<=8.0000( 8 - 64 )
TICARCILLIN	S	<=8.0000( 8 - 64 )
TRIMETH/SULFA	S	<=0.5000( 0.5 - 2 )

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**BACTERIOLOGY RESULTS**

TICAP/CLAV ACID	S 16.0000( 8 - 64 )
TICARCILLIN	S 16.0000( 8 - 64 )
TRIMETH/SULFA	R >2.0000( 0.5 - 2 )

This is an "in vitro" test that may not reflect clinical outcome.

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National Veterinary Services Laboratories  
1800 Dayton Road Ames, Iowa 50010  
Phone (515) 863-7268 Fax (515) 863-7397  
Tuberculosis Laboratory Test Report Page 1 of 1

FEDERAL RELAY SERVICE (Voice/TTY/ASOTI/Spanish)  
1-800-377-8389

Accession: 356054 Date Received: 1/20/2005

Establishment No.: MOSUED  
SUEMEYER, KIRK  
5703 500 DRIVE

Referral Number:  
Owner: KANSAS CITY ZOO  
City: KANSAS CITY  
State: MO

KANSAS CITY, MO 64132  
Fax: 8165134667

Preservation:

Retain Tag: Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
-----	-----	-----	-----
1180178	082892	12/29/04	AB1 2 / 102530
			Specimen Submitted
			TRUNK WASH

Mycobacteria Isolation  
Diagnosis: No Isolation Made

DISTRIBUTION:  
Submitter  
3/22/2005

Approved By: Janet Payeur  
National Veterinary Services Laboratories

*WKS*  
*WKS*

*File*

National Veterinary Services Laboratories  
1800 Dayton Road Ames, Iowa 50010  
Phone (515) 653-7266 Fax (515) 653-7397  
Tuberculosis Laboratory Test Report Page 1 of 1

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

Accession: 356062 Date Received: 1/20/2005  
Establishment No.: MOSUED Referral Number:  
SUEDMEYER, KIRK Owner: KANSAS CITY ZOO  
6700 ZOO DRIVE City: KANSAS CITY  
State: MO  
KANSAS CITY, MO 64132  
Fax: 8165134667

Preservation:  
Retain Tag: Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
1180184	052893	1/5/05	ABI 2 / 102530
			Specimen Submitted
			TRUNK WASH

Mycobacteria Isolation  
Diagnosis: No Isolation Made

DISTRIBUTION:

Submitter  
3/22/2005E

Approved By: Janet Payeur  
National Veterinary Services Laboratories

*WAL  
WKS*

T\*

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: 355069 Date Received: 1/20/2005

Establishment No.: MOSUED

Referral Number:

SUEDMEYER, KIRK

Owner: KANSAS CITY ZOO

6700 ZOO DRIVE

City: KANSAS CITY

State: MO

KANSAS CITY, MO 64112  
Fax: 8165134667

Preservation:

Retain Tag:

Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
1180190	052894	1/13/05	ABI 2 / 102530
			Specimen Submitted
			TRUNK WASH

Mycobacteria Isolation  
Diagnosis: No Isolation Made

DISTRIBUTION:

Submitter  
3/22/2005

Approved By: Janet Paysur  
National Veterinary Services Laboratories

*Handwritten signature/initials*

Report Date  
02/08/2005

UNIVERSITY OF MISSOURI  
VET MED DIAGNOSTIC LAB  
P.O. BOX 6023

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TH

COLUMBIA, MO 65205  
Phone #: 573-882-6911 Fax #: 573-882-1411

Owner: OWNER SAME AS CLIENT

Accession Number: 05-01471

Reference Number:

Case Coordinator: William Faies MS, Ph.D

Received: 01/27/2005 Finalized: 02/08/2005

Sampled:

Veterinarian: DR. WM KIRK SUEDEMEYER

Client: KANSAS CITY ZOO

To: KANSAS CITY ZOO  
6800 ZOO DR  
KANSAS CITY, MO 64132

Final Report

BACTERIOLOGY RESULTS

AEROBIC CULTURE

- 1 SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Jaw abscess #1  
ORGANISM ID MORAXELLA OSLOENSIS  
ORGANISM ID ACTINOMYCES SPP
- 2 SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Jaw abscess #2  
ORGANISM ID ACTINOMYCES SPP  
ORGANISM ID CITROBACTER FREUNDII
- 3 SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Jaw abscess #3  
ORGANISM ID CORYNEBACTERIUM SPP  
ORGANISM ID STAPHYLOCOCCUS EPIDERMIDIS  
ORGANISM ID ACTINOMYCES SPP

ANAEROBIC CULTURE

*Effective results*  
*NS*

Report Date  
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**COLUMBIA, MO 65205**  
Phone #: 573-882-6811 Fax #: 573-882-1411

Final Report

Accession Number: 05-01471

**BACTERIOLOGY RESULTS**

- 1    **SPECIES**                    Misc  
       **BREED**                    Elephant  
       **ANIMAL ID**                102530  
       **SPECIMEN #**               Abscess-1  
       **ORGANISM ID**            BACTEROIDES FRAGILIS  
       **COMMENTS**                This is a Gram negative nonsporforming anaerobic rod. This isolate is beta lactamase negative and therefore should be susceptible to penicillin, ampicillin or ceftiofur.
  
- 2    **SPECIES**                    Misc  
       **BREED**                    Elephant  
       **ANIMAL ID**                102530  
       **SPECIMEN #**               Abscess-2  
       **ORGANISM ID**            NO SIGNIFICANT GROWTH
  
- 3    **SPECIES**                    Misc  
       **BREED**                    Elephant  
       **ANIMAL ID**                102530  
       **SPECIMEN #**               Abscess -3  
       **ORGANISM ID**            BACTEROIDES FRAGILIS

**SMALL ANIMAL SUSCEPT**

*Expected result*  
*VB*

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Final Report

Accession Number: 05-01471

**BACTERIOLOGY RESULTS**

- 1 SPECIES Misc  
SPECIMEN # Jaw abscess 1  
BREED Elephant  
ANIMAL ID 102530  
ORGANISM ID MORAXELLA OSLOENSIS
- 2 SPECIES Misc  
SPECIMEN # Jaw abscess  
BREED Elephant  
ANIMAL ID 102530  
ORGANISM ID ACTINOMYCES SPP
- 3 SPECIES Misc  
SPECIMEN # Jaw abscess 3  
BREED Elephant  
ANIMAL ID 102530  
ORGANISM ID CORYNEBACTERIUM SPP
- 4 SPECIES Misc  
SPECIMEN # Jaw abscess 3  
BREED Elephant  
ANIMAL ID 102530  
ORGANISM ID STAPHYLOCOCCUS EPIDERMIDIS
- 5 SPECIES Misc  
SPECIMEN # Jaw abscess  
BREED Elephant  
ANIMAL ID 102530  
ORGANISM ID CITROBACTER FREUNDII
- 6 SPECIES Misc  
SPECIMEN # Jaw abscess-3  
BREED Elephant  
ANIMAL ID 102530  
ORGANISM ID ACTINOMYCES SPP

**Antibiotic Sensitivity Pattern**

	SUSCEPT (UG/ML) - 1	SUSCEPT (UG/ML) - 2
AMIKACIN	S <=4.0000( 4 - 32 )	S 8.0000( 4 - 32 )
AMOXI/CLAV	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMPICILLIN	S 0.5000( 0.25 - 16 )	I 0.5000( 0.25 - 16 )
CEFAZOLIN	S 2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CEFOXITIN	S <=2.0000( 2 - 16 )	S 8.0000( 2 - 16 )
CEFTIOFUR	S <=0.5000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )
CEPHALOTHIN	S 4.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CHLORAMPHENICOL	S 4.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CLINDAMYCIN	S <=0.2500( 0.25 - 2 )	S <=0.2500( 0.25 - 2 )
ENROFLOXACIN	S <=0.5000( 0.5 - 4 )	S 1.0000( 0.5 - 4 )

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**BACTERIOLOGY RESULTS**

	SUSCEPT (UG/ML) - 3	SUSCEPT (UG/ML) - 4
AMIKACIN	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMOXI/CLAV	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMPICILLIN	S <=0.2500( 0.25 - 16 )	R 0.5000( 0.25 - 16 )
CEFAZOLIN	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CEFOXITIN	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CEFTIOFUR	S <=0.5000( 0.5 - 4 )	S 1.0000( 0.5 - 4 )
CEPHALOTHIN	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CHLORAMPHENICOL	S 4.0000( 2 - 16 )	S 4.0000( 2 - 16 )
CLINDAMYCIN	I 2.0000( 0.25 - 2 )	S <=0.2500( 0.25 - 2 )
ENROFLOXACIN	S <=0.5000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )
ERYTHROMYCIN		S <=0.2500( 0.25 - 4 )
GENTAMICIN	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
MIPENEM	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
ORSIFLOXACIN	S <=1.0000( 1 - 4 )	I 2.0000( 1 - 4 )
OXACIL 2% NACL		S <=2.0000( 2 - 4 )
PENICILLIN		S 0.1200( 0.06 - 8 )
RIFAMPIN	S <=1.0000( 1 - 2 )	S <=1.0000( 1 - 2 )
SPECTINOMYCIN	S <=8.0000( 8 - 64 )	R 32.0000( 8 - 64 )
SULFADIMETHOXINE	S <=32.0000( 32 - 256 )	R >256.0000( 32 - 256 )
TETRACYCLINE	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
TICAR/CLAV ACID	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TICARCILLIN	S 16.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TRIMETH/SULFA	S <=0.5000( 0.5 - 2 )	S <=0.5000( 0.5 - 2 )

*Beats are  
Ayo / cefazolin  
Ceftiofur / Gentam*

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Final Report

Accession Number: 05-01471

**BACTERIOLOGY RESULTS**

	SUSCEPT (UG/ML) - 5	SUSCEPT (UG/ML) - 6
AMIKACIN	S <=4.0000( 4 - 32 )	S 8.0000( 4 - 32 )
AMOXI/CLAV	R >32.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMPICILLIN	R >16.0000( 0.25 - 16 )	S <=0.2500( 0.25 - 16 )
CEFAZOLIN	R >16.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CEFOXITIN	R >16.0000( 2 - 16 )	S 4.0000( 2 - 16 )
CEFTIOFUR	R >4.0000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )
CEPHALOTHIN	R >16.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CHLORAMPHENICOL	S 8.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CLINDAMYCIN	R >2.0000( 0.25 - 2 )	S <=0.2500( 0.25 - 2 )
ENROFLOXACIN	S <=0.5000( 0.5 - 4 )	I 2.0000( 0.5 - 4 )
ERYTHROMYCIN	S <=0.2500( 0.25 - 4 )	S <=0.2500( 0.25 - 4 )
GENTAMICIN	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
MIPENEM	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
ORBIFLOXACIN	S <=1.0000( 1 - 4 )	S <=1.0000( 1 - 4 )
OXACIL 2% NAOL	S <=2.0000( 2 - 4 )	S <=2.0000( 2 - 4 )
PENICILLIN	S <=0.0600( 0.06 - 8 )	R 0.5000( 0.06 - 8 )
RIFAMPIN	S <=1.0000( 1 - 2 )	S <=1.0000( 1 - 2 )
SPECTINOMYCIN	I 16.0000( 8 - 64 )	R 64.0000( 8 - 64 )
SULFADIMETHOXINE	S <=32.0000( 32 - 256 )	S 64.0000( 32 - 256 )
TETRACYCLINE	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
TICAR/CLAV ACID	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TICARCILLIN	S <=8.0000( 8 - 64 )	R <=8.0000( 8 - 64 )
TRIMETH/SULFA	S <=0.5000( 0.5 - 2 )	S <=0.5000( 0.5 - 2 )

	Ceftiofur / Cont.		Amp / Cef	
Moraxella 1.	S	S	S	S
Actinomyces 2.	S	S	I	S
Corynebact 3.	S	S	S	S
Staph Epi 4.	S	S	R	S
Citrobacter 5.	R	S	R	S
Actinomyces 6.	S	S	S	S

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**BACTERIOLOGY RESULTS**

ERYTHROMYCIN		S <=0.2500( 0.25 - 4 )
GENTAMICIN	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
MIPENEM	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
ORBIFLOXACIN	S <=1.0000( 1 - 4 )	R 4.0000( 1 - 4 )
OXACIL 2% NAOL		S <=2.0000( 2 - 4 )
PENICILLIN		S 0.1200( 0.06 - 0 )
RIFAMPIN	R >2.0000( 1 - 2 )	S <=1.0000( 1 - 2 )
SPECTINOMYCIN	R >64.0000( 8 - 64 )	R 32.0000( 8 - 64 )
SULFADIMETHOXINE	R >256.0000( 32 - 256 )	S <=32.0000( 32 - 256 )
TETRACYCLINE	S 4.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
TICAR/CLAY ACID	S 16.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TICARCILLIN	R 16.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TRIMETH/SULFA	S 0.5000( 0.5 - 2 )	S <=0.5000( 0.5 - 2 )

This is an "in vitro" test that may not reflect clinical outcome.

The Kansas City Zoo Anesthesia Record

Date: 12, 02, 05  
 d d m m y y

Health Status:

1.  Normal  
 2.  Abnormal

Fasting Time:

1.  < 8 hours  
 2.  8 - 24 hours  
 3.  24 - 48 hours  
 4.  > 48 hours

Activity:

1.  calm  
 2.  active  
 3.  excited

Demeanor:

1.  depressed  
 2.  alert  
 3.  aggressive  
 4.  apprehensive

Environ. Temp: 80 1.  C  
 2.  F

% Humidity: \_\_\_\_\_

Physical Status:

1.  Class I normal health  
 2.  Class II minor health problem  
 3.  Class III serious or chronic illness  
 4.  Class IV major health problem  
 5.  Class V may not survive, anesthesia

Immobilizing Conditions:

1.  Free ranging  
 2.  Large enclosure  
 3.  Small enclosure  
 4.  Squeeze cage  
 5.  Manual restraint for drug administration  
 6.  Behavioral Restraint

1.  isolated  
 2.  in group

Body Condition:

1.  obese / fat  
 2.  good  
 3.  fair / thin  
 4.  poor / emaciated

ISIS #: 102530

Species: \_\_\_\_\_

Common Name: Elephant

Sex: ♂ DOB: \_\_\_\_\_

House Name: Megan

Tattoo: \_\_\_\_\_

Tag/Band #: \_\_\_\_\_

Transponder: \_\_\_\_\_

Reason for Immobilization:

Examine jaw abscess

Dose	Drug Given	Amount (mg or %)	Route	Time Given	Delivery Success	Effect	Time of Effect	Bottle #
I	Etorphine Lleg	7mg	HM	9:37	C	3	10:14	
O	Hydroxyzine	3000 IU	HM	9:37	C	3		
I	Ac2 Propofol	10mg	HM	9:37	C	3	10:14	
S	Etorphine IV	0.5mg	IV	10:54	C	3	10:55	
S	Etorphine subcut line	0.5mg	subcut	11:07	C	3	11:03	
S	Etorphine	0.5mg	IV	11:04	C	3	11:05	
S	"	0.5mg	IV	11:23	C	3	11:19	
S	"	0.5	IV	11:37	C	3	11:38	
S	"	"	IV	11:44	C	3	11:45	
S	"	1mg	IV	11:48	C	3	11:49	
S	"	0.5mg	IV	11:52	C	3	11:53	

Worksheet Codes

- Dose: Pre-anesthetic  
 Immobilizing  
 Supplemental  
 Maintenance  
 Antagonist/ Reversal  
 Other
- Route: Pole syringe M=Intramuscular  
 Blow dart V=Intravascular  
 Capture Dart P= Intraperitoneal  
 Hand syringe S=Subcutaneous  
 Oral  
 Facemask  
 Endotracheal Tube  
 Venous catheter  
 Chamber induction

- Success: Complete, Partial, None  
 Effect: 0= no effect (awake animal)  
 1= light or mild sedation  
 2= heavy sedation  
 3= light anesthesia  
 4= surgical anesthesia  
 5= excessively deep anesthesia  
 6= died under anesthesia

Initial Effect Time: 9:40  
 Recumbency Time: 10:19 Asp

Weight: 7700 [g] [kg]  lbs  
 actual  estimated

Tracheal Tube Size X

- Complications:  
 1.  None  
 2.  Minor  
 3.  Major  
 4.  Fatal

Recovery Data:

- Recovery: Time: 1:16 Effect: 0  
 1.  Normal  
 2.  Abnormal  
 3.  Prolonged  
 4.  Stormy  
 5.  Renarcotized  
 Veterinarian WKS  
 Recorded by KMP

Anesthesia Ratings:

	Excellent	Good	Fair	Poor
Induction	1. <input checked="" type="checkbox"/>	2. <input type="checkbox"/>	3. <input type="checkbox"/>	4. <input type="checkbox"/>
Muscle Relaxation	1. <input checked="" type="checkbox"/>	2. <input type="checkbox"/>	3. <input type="checkbox"/>	4. <input type="checkbox"/>
Overall	1. <input checked="" type="checkbox"/>	2. <input type="checkbox"/>	3. <input type="checkbox"/>	4. <input type="checkbox"/>

Blood Sample Data: Time: 11:00

Collection site: ear 12 20

By J D Other Sample:  
 Frozen  yes  no

Bank Samples: \_\_\_\_\_ ml  serum  plasma  
 whole  other

Hematology sample:

1.  EDTA  
 2.  Heparin

Chemistry sample:

1.  serum  
 2.  plasma

Tests:

- CBC/Profile  
 Mineral Panel  
 WNV  
 Other

## The Kansas City Zoo Anesthesia Record

Dose Class	Drug Given	Amount (mg or %)	Route	Time Given	Delivery Success	Effect	Time of Effect	Bottle Number
S	ctorphine	0.5mg	V	12:00°C	3 →		12:01	
S	"	0.5mg	V	12:07°C	3 →		12:08	
S	"	0.25mg	V	12:26°C	3 →		12:21	
S	Naltrexone	380mg	V	12:30°C	0 →			
Physiological Data:		1050mg	7.6cc SQ	21cc				
Time	Body Temp	Heart Rate	Resp. Rate	O2 Sat	Blood Pressure Systolic / Diastolic / MAP			
9:31	96.4 F	Boks	/minute	/minute	%	/	/	
10:03	F	/minute	12	/minute	%	/	/	
10:09	F	/minute	8	/minute	%	/	/	
10:35	F	54	/minute	8	/minute	%	134 / 105 / 113	
10:45	F	81	/minute	8	/minute	%	39 / 17 / 216	
11:02	F	54	/minute	12	/minute	%	260 / 176 / 213	not in
11:31	F	55	/minute	12	/minute	%	255 / 178 / 210	
11:42	F	53	/minute	18	/minute	93%	257 / 177 / 209	
11:49	F	54	/minute	8	/minute	92%	260 / 180 / 218	
12:44	F	/minute	12	/minute	%	/	/	
12:48	F	/minute	12	/minute	%	/	/	

1.15  
See attached MU forms

Ophthalmic exam

Dental Exam

Fluids IV catheter or SQ

Injections

10cc Floxillin IM 3 locations 2 L Rear leg 1 R Rear leg

EKG Leads I II III AVR AVL AVF V

Skin biopsy

Microchip scan 1<sup>st</sup> and After placement

Ultrasound Heart Liver Gall Bladder Spleen Kidneys Bladder Uterus

Others list

Radiographs

Endoscopy - Upper GI Endoscopy

Lower GI Endoscopy

Rectal Swab - for culture and /or stool

Hair samples saved

Comments:

Flipped 10:14

11cm fibrous tract to entry point

So fistulation site to bottom of sulcus locum

Anesthesia Record

Date: 2/12/05

Induction drug(s) & dose(s):

Etorphine 7mg  
Acepromazine 15mg  
Hyaluronidase 3000 units

Animal ID: "Megan"

Time of induction: 9:37

Species:

Time of first effect: 9:40

Age: 26-27 yrs

Time of lateral recumbency: 10:15

end of procedure 12:03

Weight:

Time of intubation:

Time:	HR	RR	SAP	MAP	DAP	Temp	SpO2	Comments
9:57		12						
11:05		8						
10:23	60	8						
10:27	50							
10:32	60			139/105 113				CRZ 7.5 sec
10:52	60	7	258	215	182			Iv fluids 10:53
11:06	55	7	258	215	183			• 0.5mg etorphine 10:53
11:16	54	12	255	209	178			• 11:02 etorphine CRI 250ug/ml Starched - 11:05
11:22	54	10	255	211	181			• 0.5mg Etorphine IV
11:34	54	12	258	211	178			11:34
11:54	54		251	209	178			• 0.5mg Etorphine IV 11:18
11:55		6	285	211	180			• 1.0mg Etorphine CRI 11:25
12:19		8						• 0.5mg Etorphine IV 11:23
12:29		12						• 0.5mg Etorphine IV 11:30
								• 0.5mg etorphine IV 11:35
								• 0.5mg etorphine 11:37 4.5
								• 0.5mg etorphine IV 11:43 5.0
								• 1mg Ptorphine IV 11:47 6.0
								• 0.5mg etorphine IV 11:52 6.5
								• 0.5mg etorphine IV 11:55
								elephant appears to have bleated
								D/C ABP monitoring 11:57
								• 0.5mg etorphine IV 12:00
								• 0.5mg etorphine IV 12:07
								• 0.25mg etorphine IV 12:00
								• 7.6mg Naloxone IV 12:22 30
								• 12.1cc Naloxone SC 12:22

11:45 11cm fistular tract to entry point - 30  
Surgeal fistular site to bottom of  
sulcus 6cm.





TR

# URINALYSIS REPORT

Animal: Elephant Megan

ISIS #: 102530

Date Collected: 12 Feb 05

Date Analyzed: 13 Feb 05

Sample collection: sterile  
free catch  
cage floor

Sample storage: room  
refrigerated  
frozen

Analysis by: KMP

Color: yellow

Appearance: cloudy

Specific gravity: 1.007

Glucose: Neg

Bilirubin: Neg

Ketone: Neg

Specific gravity: 1.005

Blood: trace non hemolyzed

pH: > 8.5

Protein: 4+

Urobilinogen: Normal

Nitrite: positive

RBC/hpf:

WBC/hpf:

Bacteria:

Casts:

Crystals:

Epithelial cells:

Comments:

ANTECH DIAGNOSTICS 5701 W. 120th Street Alsip IL 60803 Phone: 800-745-4725

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

Client # 97779  
Chart # 102530

Accession No. <b>CHAC17537498</b>	Doctor NOT STATED	Owner <b>AFR ELEPHANT</b>	Pet Name MEGAN	Received 02/12/2005
Species Mammal	Breed	Sex F	Pet Age 27Y	Reported 02/13/2005 01:58 AM

Test Requested	Results	Reference Range	Units
<b>VET SCREEN (EQUINE)</b>			
AST (SGOT)	15 (LOW)	70-130	IU/L
Total Bilirubin	0.1	0.1-0.3	mg/dL
Alkaline Phosphatase	69	60-150	IU/L
GGT	8		IU/L
Total Protein	8.4	8.0-9.2	g/dL
Albumin	2.9	2.3-3.5	g/dL
Globulin	5.5 ↑		g/dL
A/G Ratio	0.5		
Cholesterol	82↑ (HIGH)	41-61	mg/dL
BUN	8	1-12	mg/dL
Creatinine	0.9 (LOW)	1.3-1.8	mg/dL
BUN/Creatinine Ratio	9		
Phosphorus	3.9	3.6-4.8	mg/dL
Calcium	9.8 (LOW)	10.0-11.0	mg/dL
Glucose	87	78-200	mg/dL
Sodium	127 (LOW)	129-136	mEq/L
Potassium	3.8 (LOW)	4.2-5.5	mEq/L
Na/K Ratio	33		
Chloride	87	85-99	mEq/L
CPK	340		IU/L
LDH	368	170-420	IU/L
<b>COMPLETE BLOOD COUNT</b>			
WBC	7.8 (LOW)	8.0-15.0	10 <sup>3</sup> /μL
REC	3.4	2.0-4.0	10 <sup>9</sup> /μL
HGB	15.1 (HIGH)	10-13	g/dL
HCT	44	34-44	%
MCV		130-170	fL
*****	128		
MCH	44.0	42.0-52.0	pg
MCHC	35	32-36	%
Comment			
RBC MORPHOLOGY	NORMAL		
<b>Differential</b>			
	Absolute	%	
Neutrophils	5070	65	/μL
Lymphocytes	1638	21	/μL
Monocytes	1014	13	/μL
Eosinophils	78	1	/μL

Accession No CHAC17537498      Doctor NOT STATED      Owner AFR ELEPHANT      Pet Name MEGAN

Test Requested	Results	Reference Range	Units
Basophils	0	0	/ $\mu$ L
Platelet Estimate	Adequate		
Platelet Count	923		$10^3$ / $\mu$ L
<b>FIBRINOGEN (SEMI-QUANTITATIVE)</b>			
Fibrinogen, Semi-Quantitative	200		mg/dl
<b>CORTISOL</b>			
Cortisol Sample 1	0.8		$\mu$ g/dL

THE VALUE OF A SINGLE BASELINE CORTISOL IN THE HORSE IS UNCERTAIN. CORTISOL LEVELS FLUCTUATE DURING THE DAY AND EVENING SAMPLES ARE GENERALLY LOWER IN AN UNSTRESSED ANIMAL. THE DEXAMETHASONE SUPPRESSION TEST IS RECOMMENDED FOR DIAGNOSIS OF PITUITARY ADENOMA (CUSHINGS DISEASE). AN ACTH STIMULATION IS MOST HELPFUL IN DIAGNOSIS OF ADRENAL CORTICAL HYPOPLASIA OR ATROPHY.

*Cortisol values not elevated  
may reflect diurnal variation*

TH

ANTECH DIAGNOSTICS 11950 West 110th Street,, Suite D Overland Park KS 66210 Phone: 800-745-4725

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

Client # 97779  
Chart # 102530

Accession No. KCBC00355542	Doctor SUEDEMEYER	Owner ELEPHANT	Pet Name MEGAN	Received 02/14/2005
Species Other	Breed	Sex F	Pet Age 27Y	Reported 02/16/2005 05:35 AM

Test Requested	Results	Reference Range	Units
<b>VET SCREEN (EQUINE)</b>			
AST (SGOT)	17		IU/L
Total Bilirubin	0.1		mg/dL
Alkaline Phosphatase	70 ↓		IU/L
GGT	6		IU/L
Total Protein	8.2		g/dL
Albumin	3.0		g/dL
Globulin	5.2 ↑		g/dL
A/G Ratio	0.6		
Cholesterol	86 ↑		mg/dL
BUN	9		mg/dL
Creatinine	0.9		mg/dL
BUN/Creatinine Ratio	10 ↑		
Phosphorus	4.8		mg/dL
Calcium	10.0 ↓		mg/dL
Glucose	71		mg/dL
Sodium	129		mEq/L
*****TEST RESULTS RECHECKED*****			
Potassium	4.4		mEq/L
Na/K Ratio	29		
Chloride	87		mEq/L
*****TEST RESULTS RECHECKED*****			
CPK	381 ↑ <i>from prior</i>		IU/L
LDH	403 ↓		IU/L
<b>COMPLETE BLOOD COUNT</b>			
WBC	4.9 ↓		10 <sup>3</sup> /μL
RBC	3.8 ↑		10 <sup>6</sup> /μL
HGB	16.0 ↑		g/dL
HCT	41		%
MCV	107		fL
MCH	41.7		pg
MCHC	39		%
Comment			
RBC MORPHOLOGY	NORMAL		

Differential	Absolute	%
--------------	----------	---

Accession No	Doctor	Owner	Pet Name
KCBC00355542	SUEDEMEYER	ELEPHANT	MEGAN
Test Requested	Results	Reference Range	Units
Neutrophils	1813	37	/ $\mu$ L
Lymphocytes	3038	62 ↓	/ $\mu$ L
Monocytes	49	1	/ $\mu$ L
Eosinophils	0	0	/ $\mu$ L
Basophils	0	0	/ $\mu$ L
Platelet Estimate	Adequate		
Platelet Count	292		$10^3$ / $\mu$ L
<b>FIBRINOGEN (SEMI-QUANTITATIVE)</b>			
Fibrinogen, Semi-Quantitative	100		mg/dl
<b>CORTISOL</b>			
Cortisol Sample 1	0.4		$\mu$ g/dL

Mild leukopenia either stress associated  
 (but cortisol actually ↓) diurnal fluct.  
 ? Hgb of RBC compatible with what is  
 shown. (between stress and  
 normally occur but leukopenia  
 Mild hypereglobulinemia

LS

TH

Report Date  
02/19/2005

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VET MED DIAGNOSTIC LAB  
P.O. BOX 6023**

Page 1 of 2

**COLUMBIA, MO 65206**  
Phone #: 573-882-6811 Fax #: 573-882-1411

Owner: OWNER SAME AS CLIENT

Accession Number: 05-02831

Reference Number:

Case Coordinator: William Fales MS, Ph.D

Received: 02/15/2005 Finalized: 02/19/2005

Sampled:

Veterinarian: DR. WM KIRK SUEDEMEYER

Client: KANSAS CITY ZOO

To: KANSAS CITY ZOO  
6800 ZOO DR  
KANSAS CITY, MO 64132

**Final Report**

**BACTERIOLOGY RESULTS**

**AEROBIC CULTURE**

<b>SPECIES</b>	Misc
<b>BREED</b>	Elephant
<b>ANIMAL ID</b>	102530
<b>SPECIMEN #</b>	Ear swab
<b>ORGANISM ID</b>	STAPHYLOCOCCUS EPIDERMIDIS
<b>ORGANISM ID</b>	ENTEROCOCCUS SPP
<b>ORGANISM ID</b>	PSEUDOMONAS SPP
<b>COMMENTS</b>	

The growth of the Isolates was heavy on direct culture.

**ANTIMICROB SUSCEPT/EQUI**

Report Date  
02/19/2005

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Page 2 of 2

**COLUMBIA, MO 65205**  
Phone #: 573-882-8811 Fax #: 573-882-1411

Final Report

Accession Number: 05-02831

**BACTERIOLOGY RESULTS**

- 1 SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Ear swab  
ORGANISM ID STAPHYLOCOCCUS EPIDERMIDIS  
COMMENTS Note resistance of the S. epidermidis to oxacillin which indicates the presence of a potent beta lactamase.
- 2 SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Ear swab  
ORGANISM ID ENTEROCOCCUS SPP
- 3 SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Ear swab  
ORGANISM ID PSEUDOMONAS SPP

*WML - US*

*WML - US  
unexpected result  
US*

Antibiotic Sensitivity Pattern

	SUSCEPT (UG/ML) - 1	SUSCEPT (UG/ML) - 2	SUSCEPT (UG/ML) - 3
AMIKACIN	S <=4.0000( 4 - 32 )	S 16.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMOXI/CLAV	R <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMPICILLIN	R 2.0000( 0.25 - 16 )	S 1.0000( 0.25 - 16 )	S 8.0000( 0.25 - 16 )
CEFAZOLIN	R 4.0000( 2 - 16 )	I 16.0000( 2 - 16 )	R >16.0000( 2 - 16 )
CEFTIOFUR	R 4.0000( 0.5 - 4 )	R >4.0000( 0.5 - 4 )	I 4.0000( 0.5 - 4 )
CHLORAMPHENICOL	S 8.0000( 2 - 16 )	S 8.0000( 2 - 16 )	S 8.0000( 2 - 16 )
ERYTHROMYCIN	S <=0.2500( 0.25 - 4 )	S 0.5000( 0.25 - 4 )	I 4.0000( 0.25 - 4 )
GENTAMICIN	R <=1.0000( 1 - 8 )	S 4.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
IMIPENEM	R <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
OXACIL 2% NACL	R >4.0000( 2 - 4 )	R >4.0000( 2 - 4 )	R >4.0000( 2 - 4 )
PENICILLIN	R 2.0000( 0.06 - 8 )	S 1.0000( 0.06 - 8 )	R >8.0000( 0.06 - 8 )
RIFAMPIN	S <=1.0000( 1 - 2 )	S <=1.0000( 1 - 2 )	R >2.0000( 1 - 2 )
SULFADIMETHOXINE	I 256.0000( 32 - 256 )	R >256.0000( 32 - 256 )	R >256.0000( 32 - 256 )
TETRACYCLINE	R >8.0000( 1 - 8 )	R >8.0000( 1 - 8 )	S 2.0000( 1 - 8 )
TICAR/CLAV ACID	R <=8.0000( 8 - 64 )	S 16.0000( 8 - 64 )	S 16.0000( 8 - 64 )
TICARCILLIN	R 16.0000( 8 - 64 )	S 16.0000( 8 - 64 )	S 16.0000( 8 - 64 )
TRIMETH/SULFA	S 1.0000( 0.5 - 2 )	S <=0.5000( 0.5 - 2 )	S 2.0000( 0.5 - 2 )

This is an "in vitro" test that may not reflect clinical outcome.

Report Date  
02/19/2005

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Page 1 of 2

TH

**COLUMBIA, MO 65205**  
Phone #: 573-882-6811 Fax #: 573-882-1411

Owner: OWNER SAME AS CLIENT

Accession Number: 05-02829  
Reference Number:  
Case Coordinator: William Fales MS, Ph.D  
Received: 02/15/2005 Finalized: 02/19/2005  
Sampled:  
Veterinarian: DR. WM KIRK SUEDEMEYER  
Client: KANSAS CITY ZOO

To: KANSAS CITY ZOO  
6800 ZOO DR  
KANSAS CITY, MO 64132

Final Report

BACTERIOLOGY RESULTS

AEROBIC CULTURE

SPECIES	Misc
BREED	Elephant
ANIMAL ID	102530
SPECIMEN #	Ear swab
ORGANISM ID	PSEUDOMONAS FLUORESCENS
ORGANISM ID	STAPHYLOCOCCUS EPIDERMIDIS
ORGANISM ID	PASTEURELLA SPP
COMMENTS	

The growth of the isolates was heavy on direct culture.

SMALL ANIMAL SUSCEPT

*WML would  
not expect P fluorescens*  
[Signature]

Report Date  
02/19/2005

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Page 2 of 2

**COLUMBIA, MO 65205**  
Phone #: 573-882-6811 Fax #: 573-882-1411

Final Report

Accession Number: 05-02829

**BACTERIOLOGY RESULTS**

- 1 **SPECIES** Misc  
**SPECIMEN #** Ear swab  
**BREED** Elephant  
**ANIMAL ID** 102530  
**ORGANISM ID** PSEUDOMONAS FLUORESCENS
- 2 **SPECIES** Misc  
**SPECIMEN #** Ear swab  
**BREED** Elephant  
**ANIMAL ID** 102530  
**ORGANISM ID** PASTEURRELLA SPP
- 3 **SPECIES** Misc  
**SPECIMEN #** Ear swab  
**BREED** Elephant  
**ANIMAL ID** 102530  
**ORGANISM ID** STAPHYLOCOCCUS EPIDERMIDIS

Antibiotic Sensitivity Pattern

	SUSCEPT (UG/ML) - 1	SUSCEPT (UG/ML) - 2	SUSCEPT (UG/ML) - 3
AMIKACIN	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMOXIC/CLAV	I 16.0000( 4 - 32 )	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMPIOILLIN	I 16.0000( 0.25 - 16 )	S <=0.2500( 0.25 - 16 )	S <=0.2500( 0.25 - 16 )
CEFAZOLIN	R >16.0000( 2 - 16 )	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CEFOXITIN	R >16.0000( 2 - 16 )	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CEFTIOFUR	I 4.0000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )
CEPHALOTHIN	R >16.0000( 2 - 16 )	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CHLORAMPHENICOL	S 8.0000( 2 - 16 )	S 4.0000( 2 - 16 )	S 4.0000( 2 - 16 )
CLINDAMYCIN	R >2.0000( 0.25 - 2 )	S <=0.2500( 0.25 - 2 )	S <=0.2500( 0.25 - 2 )
ENROFLOXACIN	S <=0.5000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )
ERYTHROMYCIN		S <=0.2500( 0.25 - 4 )	S <=0.2500( 0.25 - 4 )
GENTAMICIN	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
IMIPENEM	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
ORBIFLOXACIN	S <=1.0000( 1 - 4 )	S <=1.0000( 1 - 4 )	S <=1.0000( 1 - 4 )
OXACIL 2% NACL		S <=2.0000( 2 - 4 )	S <=2.0000( 2 - 4 )
PENICILLIN		S <=0.0600( 0.06 - 8 )	S <=0.0600( 0.06 - 8 )
RIFAMPIN	I 2.0000( 1 - 2 )	S <=1.0000( 1 - 2 )	S <=1.0000( 1 - 2 )
SPECTINOMYCIN	S <=8.0000( 8 - 64 )	R 32.0000( 8 - 64 )	R 32.0000( 8 - 64 )
SULFADIMETHOXINE	S 128.0000( 32 - 256 )	R >256.0000( 32 - 256 )	R >256.0000( 32 - 256 )
TETRACYCLINE	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
TICAR/CLAV ACID	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TICARCILLIN	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TRIMETH/SULFA	S <=0.5000( 0.5 - 2 )	S <=0.5000( 0.5 - 2 )	S <=0.5000( 0.5 - 2 )

This is an "in vitro" test that may not reflect clinical outcome.

TRK

Report Date  
03/16/2005

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VET MED DIAGNOSTIC LAB  
P.O. BOX 6023**

Page 1 of 1

**COLUMBIA, MO 65205**  
Phone #: 573-882-6811 Fax #: 573-882-1411

Owner: OWNER SAME AS CLIENT

Accession Number: 05-02832  
Reference Number:  
Case Coordinator: William Fales MS, Ph.D  
Received: 02/15/2005 Finalized: 03/16/2005  
Sampled:  
Veterinarian: DR. WM KIRK SUEDMEYER  
Client: KANSAS CITY ZOO

To: KANSAS CITY ZOO  
6800 ZOO DR  
KANSAS CITY, MO 64132

Final Report

BACTERIOLOGY RESULTS

**AEROBIC CULTURE**

SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Hair follicle  
ORGANISM ID BACILLUS SPP  
COMMENTS Bacillus probably is not significant.

*- especially since it's anaerobic!*

**ANAEROBIC CULTURE**

SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Hair follicle  
ORGANISM ID NO SIGNIFICANT GROWTH

**FUNGAL CULTURE**

SPECIES Misc  
BREED Elephant  
ANIMAL ID 102530  
SPECIMEN # Hair follicle  
ORGANISM ID FONSECAEA SPP  
COMMENTS Dermatophytes were not noted in culture.

*WML - WKS*

TH

Report Date  
04/25/2005

**UNIVERSITY OF MISSOURI  
VET MED DIAGNOSTIC LAB  
P.O. BOX 8023**

Page 1 of 3

**COLUMBIA, MO 65205**  
Phone #: 573-882-6811 Fax #: 573-882-1411

Owner: OWNER SAME AS CLIENT

Accession Number: 05-08398

Reference Number:

Case Coordinator: William Fales MS, Ph.D

Received: 04/19/2005 Finalized: 04/25/2005

Sampled:

Veterinarian: DR. WM KIRK SUEDEMEYER

Client: KANSAS CITY ZOO

To: KANSAS CITY ZOO  
8800 ZOO DR  
KANSAS CITY, MO 64132

Final Report

BACTERIOLOGY RESULTS

**AEROBIC CULTURE**

SPECIES	Misc
BREED	Elephant
ANIMAL ID	1020530
SPECIMEN #	Jaw abscess swab
ORGANISM ID	STREPTOCOCCUS SPP, ALPHA HEMOLYTIC
ORGANISM ID	STAPHYLOCOCCUS EPIDERMIDIS
ORGANISM ID	E. COLI
ORGANISM ID	AEROMONAS HYDROPHILA
COMMENTS	

The growth of the Isolates was heavy on direct culture.

**ANAEROBIC CULTURE**

SPECIES	Misc
BREED	Elephant
ANIMAL ID	1020530
SPECIMEN #	Jaw abscess swab
ORGANISM ID	NO SIGNIFICANT GROWTH

**ANTIMICROB SUSCEPT/EQUINE**

1	SPECIES	Misc
	BREED	Elephant
	ANIMAL ID	1020530
	SPECIMEN #	Abscess swab
	ORGANISM ID	STREPTOCOCCUS SPP, ALPHA HEMOLYTIC
2	SPECIES	Misc
	BREED	Elephant
	ANIMAL ID	1020530

Report Date  
04/25/2005

**UNIVERSITY OF MISSOURI  
VET MED DIAGNOSTIC LAB  
P.O. BOX 6023**

Page 2 of 3

COLUMBIA, MO 65205  
Phone #: 573-882-6811 Fax #: 573-882-1411

Final Report

Accession Number: 05-08388

**BACTERIOLOGY RESULTS**

- 2 SPECIMEN # Abscess swab  
ORGANISM ID STAPHYLOCOCCUS EPIDERMIDIS
- 3 SPECIES Misc  
BREED Elephant  
ANIMAL ID 1020530  
SPECIMEN # Abscess swab  
ORGANISM ID STREPTOCOCCUS SPP, ALPHA HEMOLYTIC  
COMMENTS Note differences in the susceptibility patterns of the two alpha hemolytic streptococcal isolates. WHF, 4/25/05.
- 4 SPECIES Misc  
BREED Elephant  
ANIMAL ID 1020530  
SPECIMEN # Abscess swab  
ORGANISM ID E. COLI
- 5 SPECIES Misc  
BREED Elephant  
ANIMAL ID 1020530  
SPECIMEN # Abscess swab  
ORGANISM ID AEROMONAS HYDROPHILA
- 6 SPECIES Misc  
BREED Elephant  
ANIMAL ID 1020530

Antibiotic Sensitivity Pattern

	SUSCEPT (UG/ML) - 1	SUSCEPT (UG/ML) - 2	SUSCEPT (UG/ML) - 3	SUSCEPT (UG/ML) - 4
AMIKACIN	S 8.0000( 4 - 32 )	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMOX/CLAV	S <=4.0000( 4/2 - 32/16 )	S <=4.0000( 4/2 - 32/16 )	S <=4.0000( 4/2 - 32/16 )	I 16.0000( 4/2 - 32/16 )
AMPICILLIN	S <=0.2500( 0.25 - 16 )	S <=0.2500( 0.25 - 16 )	S <=0.2500( 0.25 - 16 )	R >16.0000( 0.25 - 16 )
CEFAZOLIN	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )	I 16.0000( 2 - 16 )	I 16.0000( 2 - 16 )
CEFTIOFUR	S <=0.2500( 0.25 - 4 )	S <=0.2500( 0.25 - 4 )	R >4.0000( 0.25 - 4 )	S 1.0000( 0.25 - 4 )
CHLORAMPHENICOL	S <=4.0000( 4 - 16 )	S <=4.0000( 4 - 16 )	S <=4.0000( 4 - 16 )	S <=4.0000( 4 - 16 )
ERYTHROMYCIN	I <=0.5000( 0.5 - 4 )	S <=0.5000( 0.5 - 4 )	I <=0.5000( 0.5 - 4 )	
GENTAMICIN	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
IMIPENEM	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
OXACIL - 2% NACL	S <=2.0000( 2 - 4 )	S <=2.0000( 2 - 4 )	R 4.0000( 2 - 4 )	
PENICILLIN	R 0.2500( 0.06 - 8 )	S <=0.0600( 0.06 - 8 )	R 1.0000( 0.06 - 8 )	
RIFAMPIN	S <=1.0000( 1 - 2 )	S <=1.0000( 1 - 2 )	R >2.0000( 1 - 2 )	I 2.0000( 1 - 2 )
TETRACYCLINE	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	R 8.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
TICAR/CLAV ACID	S <=8.0000( 8/2 - 64/2 )	S <=8.0000( 8/2 - 64/2 )	S <=8.0000( 8/2 - 64/2 )	I 32.0000( 8/2 - 64/2 )
TICARCILLIN	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )	R >64.0000( 8 - 64 )
TRIMETH/SULFA	S <=0.5000( 0.5/9.5 - 2/38 )	S <=0.5000( 0.5/9.5 - 2/38 )	R >2.0000( 0.5/9.5 - 2/38 )	S <=0.5000( 0.5/9.5 - 2/38 )

*Expected results*  
V3

Report Date  
04/25/2005

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P.O. BOX 6023

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COLUMBIA, MO 65205  
Phone #: 573-882-6811 Fax #: 573-882-1411

Final Report

Accession Number: 05-08396

**BACTERIOLOGY RESULTS**

	SUSCEPT (UG/ML) - S
AMIKACIN	S 8.0000( 4 - 32 )
AMOXI/CLAV	S 8.0000( 4/2 - 32/16 )
AMPICILLIN	R >16.0000( 0.25 - 16 )
CEFAZOLIN	R >16.0000( 2 - 16 )
CEFTIOFUR	S 1.0000( 0.25 - 4 )
CHLORAMPHENICOL	S <=4.0000( 4 - 16 )
ERYTHROMYCIN	
GENTAMICIN	S 2.0000( 1 - 8 )
IMIPENEM	R >8.0000( 1 - 8 )
OXACIL + 2% NACL	
PENICILLIN	
RIFAMPIN	R >2.0000( 1 - 2 )
TETRACYCLINE	S <=1.0000( 1 - 8 )
TICAR/CLAV ACID	S <=8.0000( 8/2 - 64/2 )
TICARCILLIN	R >64.0000( 8 - 64 )
TRIMETH/SULFA	S <=0.5000( 0.5/0.5 - 2/38 )

This is an "in vitro" test that may not reflect clinical outcome.

Report Date  
05/11/2005

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TK

**COLUMBIA, MO 65205**  
Phone #: 573-882-6811 Fax #: 573-882-1411

Owner: OWNER SAME AS CLIENT

Accession Number: 05-09538

Reference Number:

Case Coordinator: William Fales MS, Ph.D

Received: 05/03/2005 Finalized: 05/11/2005

Sampled:

Veterinarian: DR. WM KIRK SUEDMEYER

Client: KANSAS CITY ZOO

To: KANSAS CITY ZOO  
6800 ZOO DR  
KANSAS CITY, MO 64132

**Addended Report**

**BACTERIOLOGY RESULTS**

**AEROBIC CULTURE**

<b>SPECIES</b>	Misc
<b>BREED</b>	Elephant
<b>ANIMAL ID</b>	102530 Megan
<b>SPECIMEN #</b>	Foot abscess
<b>ORGANISM ID</b>	E. COLI
<b>ORGANISM ID</b>	ENTEROCOCCUS SPP
<b>ORGANISM ID</b>	STREPTOCOCCUS SPP, BETA HEMOLYTIC
<b>COMMENTS</b>	

The growth of the isolates was heavy on direct culture.

**ANAEROBIC CULTURE**

<b>SPECIES</b>	Misc
<b>BREED</b>	Elephant
<b>ANIMAL ID</b>	102530 Megan
<b>SPECIMEN #</b>	Foot abscess
<b>ORGANISM ID</b>	STREPTOCOCCUS SPP, BETA HEMOLYTIC
<b>ORGANISM ID</b>	FUSOBACTERIUM/BACTEROIDES GROUP
<b>COMMENTS</b>	

The Fusobacterium/Bacteroides group is an addendum. The isolate is a Gram negative nonsporeforming anaerobic rod. It is beta lactamase negative. WHF, 5/11/05.

**BACTERIOLOGY COMMENTS**

COMMENTS Note addition of Fusobacterium/Bacteroides group. 5/11/05.

**ANTIMICROB SUSCEPT/EQUINE**

Report Date  
05/11/2005

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COLUMBIA, MO 65205  
Phone #: 573-882-6811 Fax #: 573-882-1411

Added Report

Accession Number: 05-09638

BACTERIOLOGY RESULTS

- 1 ANIMAL ID 102530 Megan
- SPECIMEN # Foot swab-abscess
- ORGANISM ID E. COLI
- 2 ANIMAL ID 102530 Megan
- SPECIMEN # Foot swab-abscess
- ORGANISM ID ENTEROCOCCUS SPP
- 3 ANIMAL ID 102550 Megan
- SPECIMEN # Foot swab-abscess
- ORGANISM ID STREPTOCOCCUS SPP, BETA HEMOLYTIC

*To monitor body as  
 possible cause of pathology  
 changes in organs  
 etc.*

*LG*

Report Date  
05/11/2005

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COLUMBIA, MO 65205  
Phone #: 573-882-6811 Fax #: 573-882-1411

Addended Report

Accession Number: 05-09538

**BACTERIOLOGY RESULTS**

## Antibiotic Sensitivity Pattern

	SUSCEPT (UG/ML) - 1	SUSCEPT (UG/ML) - 2	SUSCEPT (UG/ML) - 3
AMIKACIN	S <=4.0000( 4 - 32 )	I 32.0000( 4 - 32 )	S <=4.0000( 4 - 32 )
AMOXICLAV	S <=4.0000( 4/2 - 32/16 )	S <=4.0000( 4/2 - 32/16 )	S <=4.0000( 4/2 - 32/16 )
AMPICILLIN	S 4.0000( 0.25 - 16 )	S <=0.2500( 0.25 - 16 )	S <=0.2500( 0.25 - 16 )
CEFAZOLIN	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )	S <=2.0000( 2 - 16 )
CEFTIOFUR	S <=0.2500( 0.25 - 4 )	S <=0.2500( 0.25 - 4 )	S <=0.2500( 0.25 - 4 )
CHLORAMPHENICOL	S 3.0000( 4 - 16 )	S 3.0000( 4 - 16 )	S <=4.0000( 4 - 16 )
ERYTHROMYCIN		S <=0.5000( 0.5 - 4 )	T <=0.5000( 0.5 - 4 )
GENTAMICIN	S <=1.0000( 1 - 8 )	S 4.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
IMIPENEM	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S <=1.0000( 1 - 8 )
OXACIL - 2% NACL		S <=2.0000( 2 - 4 )	S <=2.0000( 2 - 4 )
PENICILLIN		S 0.1200( 0.06 - 8 )	S <=0.0600( 0.06 - 8 )
RIFAMPIN	R >2.0000( 1 - 2 )	S <=1.0000( 1 - 2 )	S <=1.0000( 1 - 2 )
TETRACYCLINE	S 2.0000( 1 - 8 )	S <=1.0000( 1 - 8 )	S 2.0000( 1 - 8 )
TICAR/CLAV ACID	S <=8.0000( 8/2 - 64/2 )	S <=8.0000( 8/2 - 64/2 )	S <=8.0000( 8/2 - 64/2 )
TICARCILLIN	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )	S <=8.0000( 8 - 64 )
TRIMETH/SULFA	S <=0.5000( 0.5/9.5 - 2/38 )	S <=0.5000( 0.5/9.5 - 2/38 )	S <=0.5000( 0.5/9.5 - 2/38 )

This is an "in vitro" test that may not reflect clinical outcome.