

Antimicrobial Susceptibility Profiles

- Note: The susceptibility information presented below is a summary of data gathered at ISU VDL for the time period listed. The information may be useful to understand susceptibility trends or as an aid in making clinical decisions, but may not be accurate for specific disease situations.
- In vitro antimicrobial test results do not represent therapeutic recommendations from the VDL or personnel therein. Extra/Off label usage of an antimicrobial which is limited/prohibited for certain species may result in legal action by FDA-CVM.
- Data is reported as: % susceptible (# isolates tested) – not all bacteria isolated at ISU VDL have been tested for antimicrobial susceptibility.

Equine 2017-2019

Susceptibility profile of Equine pathogens received at ISU VDL in 2017-2019

Data reported as: % susceptible (# isolates tested)

Antibiotic	A equ	B bron	P aer	Past	R equ	S aur	S equi	S equs	S zoo	Salm B
Amikacin	100% (23)	100% (7)	100% (30)	100% (1)	100% (13)	100% (31)	7% (14)	7% (15)	5% (104)	100% (7)
Ampicillin	74% (23)	14% (7)	4% (25)	100% (1)	0% (13)	48% (29)	93% (14)	100% (15)	99% (99)	100% (7)
Azithromycin	NI	NI	NI	100% (1)	NI	81% (26)	100% (14)	100% (15)	100% (96)	NI
Cefazolin	4% (23)	0% (7)	0% (30)	0% (1)	0% (13)	3% (31)	0% (14)	0% (15)	2% (104)	0% (7)
Ceftazidime	100% (23)	100% (7)	96% (25)	100% (1)	0% (13)	38% (26)	21% (14)	20% (15)	31% (96)	100% (7)
Ceftiofur	100% (22)	14% (7)	3% (29)	100% (1)	0% (13)	90% (30)	100% (14)	100% (15)	97% (102)	100% (7)
Chloramphenicol	100% (23)	100% (7)	3% (30)	100% (1)	31% (13)	90% (31)	100% (14)	100% (15)	98% (104)	100% (7)
Clarithromycin	NI	NI	NI	NI	100% (13)	88% (26)	NI	NI	0% (96)	NI
Doxycycline	100% (23)	100% (7)	27% (30)	100% (1)	69% (13)	87% (31)	21% (14)	20% (15)	26% (104)	57% (7)
Enrofloxacin	100% (23)	57% (7)	52% (25)	100% (1)	15% (13)	93% (29)	0% (14)	0% (15)	11% (99)	100% (7)
Erythromycin	0% (22)	0% (7)	3% (29)	100% (1)	38% (13)	84% (31)	100% (14)	100% (15)	94% (104)	0% (7)
Gentamicin	87% (23)	100% (7)	87% (30)	100% (1)	100% (13)	74% (31)	29% (14)	47% (15)	5% (104)	100% (7)
Imipenem	100% (23)	100% (7)	76% (25)	100% (1)	100% (13)	90% (29)	100% (14)	100% (15)	100% (99)	100% (7)
Oxacillin*	NI	NI	4% (24)	NI	NI	90% (29)	NI	NI	NI	NI
Penicillin	5% (22)	0% (7)	4% (24)	100% (1)	0% (13)	62% (29)	100% (14)	100% (15)	100% (99)	0% (7)
Tetracycline^	0% (23)	0% (7)	4% (25)	0% (1)	0% (13)	70% (27)	93% (14)	80% (15)	28% (98)	100% (7)
Ticarcillin	100% (22)	86% (7)	69% (29)	100% (1)	0% (13)	40% (30)	21% (14)	20% (15)	31% (102)	57% (7)
Ticarcillin/ Clavulanic Acid	100% (22)	100% (7)	96% (24)	100% (1)	0% (13)	36% (28)	21% (14)	20% (15)	30% (97)	100% (7)
Trimethoprim/ Sulphamethoxaz	87% (23)	57% (7)	3% (30)	100% (1)	31% (13)	90% (31)	21% (14)	60% (15)	19% (104)	100% (7)

*Isolates resistant to oxacillin are interpreted as potentially methicillin resistant.

^In Aug of 2018 a new test, Tetracycline was added .

Key:

A equ Actinobacillus equuli
A suis Actinobacillus suis
APP Actinobacillus pleuropneumoniae
B bron Bordetella bronchiseptica
B tre Bibersteinia trehalosi
(formerly Pasteurella trehalosi)
C per Clostridium perfringens
Clos Clostridium species
E coli Escherichia coli
E fael Enterococcus faecalis
E faem Enterococcus faecium
Ente Enterobacter species
Erys Erysipelothrix
H ecol Hemolytic E.coli
H som Histophilus somni
G ana Gallibacterium anatis
GPS Glaesserella parasuis
(formerly Haemophilus parasuis)
K pneu Klebsiella pneumoniae
M bov Moraxella bovis
M bovo Moraxella bovoculi

M haem Mannheimia haemolytica
P aer Pseudomonas aeruginosa
Past Pasteurella species
PMul A Pasteurella multocida group A
PMul D Pasteurella multocida group D
Pseu Pseudomonas species
R equ Rhodococcus equi
S aur Staphylococcus aureus
S can Streptococcus canis
S equus Streptococcus equisimilis
S hyi Staphylococcus hyicus
S pint Staphylococcus pseudintermedius
S suis Streptococcus suis
S zoo Streptococcus zooepidemicus
Salm B Salmonella species group B
Salm C1 Salmonella species group C1
Salm C2 Salmonella species group C2
Salm D Salmonella species group D
Salm sp Salmonella species