

## 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

### Canine 2016-2018

### Susceptibility profile of Canine pathogens received at ISU VDL in 2016-2018

Data reported as: % susceptible (# isolates tested)

Antibiotic	B bron	E coli	E fael	E faem	Ente	K pneu	P aer	P mult	Pseu	S aur	S can	S pint
Amikacin	100% (31)	99% (858)	17% (231)	21% (89)	99% (75)	100% (8)	97% (384)	100% (10)	86% (107)	100% (59)	7% (294)	99% (1106)
Amoxicillin/ Clavulanic Acid	97% (31)	15% (853)	99% (229)	35% (88)	25% (72)	100% (8)	1% (367)	100% (10)	42% (95)	32% (59)	100% (272)	69% (1032)
Ampicillin	3% (31)	12% (854)	98% (229)	34% (88)	28% (72)	13% (8)	0% (367)	100% (10)	4% (95)	17% (59)	97% (272)	57% (1032)
Cefazolin	0% (31)	49% (858)	0% (231)	1% (89)	4% (75)	50% (8)	1% (384)	80% (10)	7% (107)	69% (59)	89% (294)	66% (1106)
Cefovecin	0% (31)	14% (852)	0% (229)	1% (88)	14% (72)	25% (8)	0% (367)	50% (10)	2% (95)	7% (59)	26% (272)	14% (1032)
Cefoxitin	0% (17)	85% (259)	0% (75)	0% (22)	41% (27)	100% (4)	0% (127)	0% (2)	0% (37)	44% (16)	10% (86)	74% (282)
Cefpodoxime	0% (31)	80% (852)	0% (229)	0% (88)	78% (72)	100% (8)	0% (367)	100% (10)	2% (95)	8% (59)	92% (272)	20% (1032)
Ceftiofur	0% (17)	81% (265)	6% (77)	4% (23)	90% (30)	100% (4)	1% (144)	100% (2)	51% (49)	69% (16)	99% (108)	78% (356)
Cephalothin		0% (7)	4% (160)	1% (68)			0% (3)		100% (1)	69% (59)	98% (263)	71% (1019)
Chloramphenicol	97% (31)	81% (859)	96% (231)	81% (89)	83% (75)	88% (8)	1% (384)	100% (10)	50% (107)	80% (59)	36% (294)	84% (1106)
Clindamycin	0% (17)	1% (265)	4% (228)	18% (88)	0% (27)	0% (4)	0% (128)	0% (2)	14% (37)	86% (59)	92% (272)	68% (1032)
Doxycycline	97% (31)	79% (858)	73% (231)	26% (89)	85% (75)	88% (8)	5% (384)	80% (10)	86% (107)	81% (59)	18% (294)	56% (1106)
Enrofloxacin	77% (31)	83% (853)	3% (229)	1% (88)	83% (72)	100% (8)	22% (367)	100% (10)	57% (95)	73% (59)	17% (272)	68% (1032)
Erythromycin	0% (17)	0% (269)	36% (230)	7% (89)	0% (30)	0% (4)	0% (145)	0% (2)	0% (49)	51% (59)	57% (294)	66% (1106)
Gentamicin	58% (31)	90% (859)	28% (231)	25% (89)	88% (75)	100% (8)	83% (384)	100% (10)	83% (107)	95% (59)	48% (294)	72% (1106)
Imipenem	100% (31)	100% (853)	86% (229)	8% (88)	99% (72)	100% (8)	68% (367)	100% (10)	71% (95)	69% (59)	99% (272)	71% (1032)
Marbofloxacin	90% (31)	84% (852)	14% (229)	2% (88)	89% (72)	100% (8)	78% (367)	100% (10)	92% (95)	78% (59)	62% (272)	75% (1032)
Oxacillin*	NI	NI	NI	NI	NI	NI	NI	NI	NI	68% (59)	NI	70% (1032)
Penicillin	0% (17)	1% (265)	97% (228)	27% (88)	0% (27)	0% (4)	0% (128)	0% (2)	0% (37)	14% (59)	69% (272)	32% (1032)
Tetracycline^	0% (14)	79% (595)	73% (154)	18% (66)	89% (45)	100% (4)	0% (240)	0% (8)	2% (58)	79% (43)	4% (186)	55% (750)
Ticarcillin	71% (17)	59% (264)	0% (77)	0% (23)	73% (30)	0% (4)	67% (144)	0% (2)	51% (49)	0% (16)	12% (108)	5% (356)
Ticarcillin/ Clavulanic Acid	100% (17)	76% (258)	0% (75)	0% (22)	85% (27)	100% (4)	65% (127)	0% (2)	59% (37)	0% (16)	9% (86)	1% (282)
Trimethoprim/ Sulphamethoxazole	58% (31)	84% (859)	23% (231)	25% (89)	93% (75)	100% (8)	2% (384)	100% (10)	60% (107)	97% (59)	21% (294)	69% (1106)

\*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  
HPS Haemophilus parasuis  
G ana Gallibacterium anatis  
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