

Equine Antimicrobial Susceptibility Profiles

Note: The information may be useful to understand susceptibility trends or as aid in making clinical decisions, but may not be accurate for specific disease situations.

Equine	Disk Diffusion Susceptibility Profile of Equine Pathogens submitted to the ISU VDL in 2007 - 2008									
# tested	A equ	B bron	Paer	Past	P cab	R equ	S aur	S equi	S equus	S zoo
	13	6	21	3	2	29	15	27	12	110
	Percent Susceptible***									
Amikacin	38%	67%	86%	100%	100%	97%	93%	7%	8%	2%
Amoxicillin / Clavulanic Acid	ND	100%	0%	ND	ND	50%	75%	100%	100%	100%
Ampicillin**	100%	0%	0%	100%	100%	0%	67%	100%	92%	98%
Cefazolin	ND	0%	0%	ND	ND	0%	75%	100%	100%	100%
Cefoxitin	ND	0%	0%	ND	ND	50%	75%	100%	100%	100%
Cefpodoxime	ND	0%	0%	ND	ND	0%	75%	100%	100%	100%
Ceftazidime	ND	ND	100%	ND	ND	ND	ND	ND	ND	ND
Ceftiofur**	100%	0%	0%	100%	100%	66%	73%	100%	100%	99%
Cephalothin	100%	17%	0%	100%	100%	0%	73%	100%	100%	99%
Chloramphenicol	ND	100%	0%	ND	ND	0%	100%	100%	50%	89%
Ciprofloxacin	ND	ND	100%	ND	ND	ND	ND	ND	ND	ND
Clindamycin	0%	0%	0%	67%	0%	0%	87%	26%	67%	26%
Doxycycline	ND	ND	0%	ND	ND	ND	ND	ND	ND	ND
Enrofloxacin	100%	83%	38%	100%	100%	59%	93%	93%	75%	62%
Erythromycin	31%	0%	0%	67%	100%	90%	80%	96%	83%	91%
Gentamicin**	69%	83%	86%	100%	100%	100%	87%	67%	67%	44%
Imipenem	ND	100%	100%	ND	ND	100%	50%	100%	100%	100%
Marbofloxacin	ND	0%	0%	ND	ND	0%	100%	100%	100%	88%
Neomycin	38%	100%	29%	100%	100%	96%	100%	4%	0%	2%
Orbifloxacin	ND	0%	0%	ND	ND	0%	75%	0%	100%	22%
Oxacillin****	ND	ND	ND	ND	ND	ND	60%	ND	ND	ND
Penicillin	46%	0%	0%	67%	50%	0%	67%	100%	100%	97%
Polymixin B	ND	ND	100%	ND	ND	ND	ND	ND	ND	ND
Rifampin	62%	0%	0%	67%	100%	93%	87%	100%	100%	94%
Sulfachloropyridazine	85%	50%	0%	100%	100%	74%	82%	77%	82%	55%
Tetracycline	92%	83%	5%	100%	100%	97%	80%	96%	42%	35%
Ticarcillin	100%	67%	73%	100%	100%	0%	73%	100%	100%	99%
Ticarcillin / Clavulanic Acid	100%	83%	59%	100%	100%	7%	67%	100%	100%	99%
Trimethoprim / Sulphamethoxazole	100%	33%	5%	100%	100%	52%	100%	96%	ND	92%

Key:

- * 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
- ** These are the only antimicrobials with valid breakpoints correlated with clinical outcome in species presented.
- *** Percent of isolates with a susceptible value.
- **** Methicillin resistant is represented by oxacillin.
- ND Not done

A equ	Actinobacillus equuli	Past	Pasteurella species	S equi	Streptococcus equi
B bron	Bordetella bronchiseptica	R equ	Rhodococcus equi	S equus	Streptococcus equisimilis
P aer	Pseudomonas aeruginosa	S aur	Staphylococcus aureus	S zoo	Streptococcus zooepidemicus
P cab	Pasteurella caballi				