

Bovine 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.

Bovine	MIC Susceptibility Profile of Bovine Pathogens Submitted to ISU VDL in 2008											
	# tested	E coli 99 -	E coli 99 +	H som	M bov	M hem	P mult	P tre	S dubl	S new	S typm	S ugan
		480	15	37	10	122	83	2	37	7	19	9
		Percent susceptible***										
Ampicillin		30%	73%	97%	100%	82%	98%	100%	11%	43%	16%	22%
Ceftiofur**		59%	87%	100%	100%	100%	100%	100%	16%	43%	47%	22%
Cephalothin		60%	73%	ND	100%	100%	100%	ND	ND	ND	ND	ND
Chlortetracycline		11%	ND	97%	100%	78%	94%	100%	3%	29%	16%	11%
Clindamycin		0%	0%	57%	20%	0%	0%	0%	0%	0%	0%	0%
Danofloxacin**		65%	ND	65%	0%	80%	81%	100%	ND	ND	ND	ND
Enrofloxacin**		70%	ND	65%	100%	82%	85%	100%	100%	100%	100%	100%
Erythromycin		0%	0%	ND	100%	0%	67%	ND	0%	0%	0%	0%
Florfenicol**		9%	ND	92%	100%	87%	86%	100%	8%	14%	5%	0%
Gentamicin		58%	0%	32%	100%	84%	73%	100%	97%	86%	84%	11%
Neomycin		23%	0%	5%	100%	55%	41%	100%	51%	71%	79%	33%
Novobiocin		0%	0%	ND	ND	ND	100%	ND	ND	ND	ND	ND
Oxacillin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oxytetracycline**		8%	ND	43%	100%	48%	63%	50%	3%	29%	16%	11%
Penicillin		0%	0%	95%	10%	22%	73%	50%	0%	0%	0%	0%
Penicillin / Novobiocin		0%	0%	ND	ND	ND	100%	ND	ND	ND	ND	ND
Spectinomycin**		0%	ND	59%	89%	76%	73%	0%	0%	0%	0%	0%
Sulfachloropyridazine		30%	60%	ND	100%	100%	100%	ND	0%	0%	0%	0%
Sulfadiazine		80%	80%	ND	ND	ND	0%	ND	ND	ND	ND	ND
Sulfadimethoxine		12%	60%	35%	89%	21%	20%	50%	3%	0%	0%	0%
Tetracycline		50%	67%	ND	100%	100%	100%	ND	ND	ND	ND	ND
Tiamulin		0%	ND	100%	100%	49%	59%	100%	3%	0%	0%	0%
Tilmicosin**		0%	ND	84%	90%	66%	69%	100%	0%	0%	0%	0%
Trimethoprim / Sulphamethoxazole		42%	0%	100%	100%	3%	5%	100%	76%	71%	89%	89%
Tulathromycin**		0%	ND	78%	0%	81%	83%	0%	ND	ND	ND	ND
Tylosin (Tartrate/Base)		0%	ND	65%	0%	0%	0%	0%	0%	0%	0%	0%

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

Ecoli 99 -	E. coli, K99 negative	M haem	Mannheimia haemolytica	S new	Salmonella newport
Ecoli 99 +	E. coli, K99 positive	P mult	Pasteurella multocida	S typm	Salmonella typhimurium
H som	Histophilus somni	P tre	Pasteurella trehalosi	S ugan	Salmonella uganda
M bov	Moraxella bovis	S dubl	Salmonella dublin		