

## Bovine 2010

## Susceptibility profile of Bovine pathogens received at ISU VDL in 2010

*Data reported as: % susceptible (# isolates tested)<sup>1</sup>*

	<b>B tre</b>	<b>E coli</b>	<b>H som</b>	<b>M bov</b>	<b>M haem</b>	<b>P mult</b>	<b>Salm B<sup>2</sup></b>	<b>Salm C<sup>2</sup></b>	<b>Salm D<sup>2</sup></b>	<b>Salm E<sup>2</sup></b>
Ampicillin	60% (10)	28% (355)	88% (77)	100% (8)	61% (132)	98% (120)	35% (26)	46% (13)	13% (52)	94% (18)
Ceftiofur	80% (10)	56% (355)	100% (77)	100% (8)	98% (132)	100% (120)	77% (26)	46% (13)	15% (52)	100% (18)
Chlortetracycline	40% (10)	12% (355)	99% (77)	100% (8)	77% (132)	89% (120)	23% (26)	23% (13)	2% (52)	78% (18)
Clindamycin	10% (10)	0% (355)	55% (77)	13% (8)	1% (132)	0% (120)	0% (26)	0% (13)	0% (52)	0% (18)
Danofloxacin	38% (10)	61% (355)	77% (77)	NI	98% (132)	80% (120)	100% (26)	100% (13)	98% (52)	100% (18)
Enrofloxacin	40% (10)	62% (355)	78% (77)	100% (8)	67% (132)	87% (120)	100% (26)	100% (13)	100% (52)	100% (18)
Florfenicol	70% (10)	7% (355)	94% (77)	88% (8)	83% (132)	87% (120)	12% (26)	15% (13)	0% (52)	33% (18)
Gentamicin	80% (10)	70% (355)	17% (77)	100% (8)	80% (132)	78% (120)	92% (26)	100% (13)	94% (52)	100% (18)
Neomycin	40% (10)	30% (355)	0% (77)	100% (8)	47% (132)	33% (120)	50% (26)	85% (13)	46% (52)	100% (18)
Oxytetracycline	30% (10)	11% (355)	36% (77)	100% (8)	39% (132)	53% (120)	23% (26)	23% (13)	2% (52)	78% (18)
Penicillin	20% (10)	0% (355)	79% (77)	0% (8)	22% (132)	58% (120)	0% (26)	0% (13)	0% (52)	0% (18)
Spectinomycin	0% (10)	0% (355)	43% (77)	100% (8)	61% (132)	65% (120)	0% (26)	0% (13)	0% (52)	0% (18)
Sulfadimethoxine	40% (10)	9% (355)	13% (77)	100% (8)	16% (132)	8% (120)	0% (26)	8% (13)	2% (52)	6% (18)
Tiamulin	50% (10)	1% (355)	99% (77)	100% (8)	92% (132)	66% (120)	0% (26)	0% (13)	0% (52)	0% (18)
Tilmicosin	30% (10)	0% (355)	94% (77)	100% (8)	46% (132)	57% (120)	0% (26)	0% (13)	0% (52)	0% (18)
Trimethoprim/ Sulphamethoxazole	60% (10)	41% (355)	97% (77)	100% (8)	1% (132)	2% (120)	92% (26)	100% (13)	71% (52)	100% (18)
Tulathromycin	0% (10)	NI	83% (77)	NI	78% (132)	78% (120)	NI	NI	NI	NI
Tylosin (Tartrate/Base)	10% (10)	NI	65% (77)	NI	1% (132)	0% (120)	NI	NI	NI	NI

**Key:**

1	Data is reported as: % susceptible (# isolates tested) - not all bacteria isolated at ISU VDL have been tested for antimicrobial susceptibility	
2	See Salmonella serotype table for most common serotypes isolated within each group	
3	Isolates resistant to oxacillin are interpreted as potentially methicillin resistant.	
4	A result of $\leq 2$ ug/ml for Carbadox is a conservative indicator of bacterial inhibition by this antimicrobial agent. The result shown is based on pharmacokinetic research indicating an average Carbadox level of 4.5 mcg/ml in the small intestine of pigs fed a dose rate of 50 g/ton. (De Graff 1988).	
5	Multidrug resistant isolates were found resistant to most classes of antimicrobial in the 1 <sup>st</sup> round of testing. This table represents additional Disk Diffusion testing for those isolates.	
NA	Not applicable	
ND	Not done	
NI	No interpretation	
A equ - Actinobacillus equuli	H ecol - hemolytic E. coli	S aur - Staphylococcus aureus
A suis - Actinobacillus suis	H som - Histophilus somni	S beta- Beta Streptococcus species
Abua - Acinetobacter species	HPS - Haemophilus parasuis	S can - Streptococcus canis
Amy - Actinomyces species	K pneu - Klebsiella pneumoniae	S chol - Salmonella choleraesuis
APP - Actinobacillus pleuropneumoniae	M bov - Moraxella bovis	S dysg - Streptococcus dysgalactiae
B bron - Bordetella bronchiseptica	M haem - Mannheimia haemolytica	S epi- Staphylococcus epidermidis
B tre - Bibersteinia trehalosi (formerly Pasteurella trehalosi)	P aer - Pseudomonas aeruginosa	S equi - Streptococcus equi
Bact - Bacteroides group	P cab - Pasteurella caballi	S equus - Streptococcus equisimilis
C diff - Clostridium difficile	P mult - Pasteurella multocida	S pint - Staph pseudintermedius
C perf - Clostridium perfringens	Past - Pasteurella species	S suis - Streptococcus suis
Clos - Clostridium species	Pec - Peptococcus species	S ube - Streptococcus uberis
E coli - Escherichia coli	Pes - Peptostreptococcus species	S zoo - Streptococcus zooepidemicus
E fael - Enterococcus faecalis	Pmul A - Pasteurella multocida Type A	Salm sp- Salmonella species
E faem - Enterococcus faecium	Pmul D - Pasteurella multocida Type D	Salm B - Salmonella species group B
Enc - Enterococcus species	Prot - Proteus species	Salm C1 - Salmonella species group C1
Ente - Enterobacter species	Prp - Propionibacterium species	Salm C2 - Salmonella species group C2
Erys - Erysipelothrix	Pseu - Pseudomonas species	Salm D - Salmonella species group D
Fus - Fusobacterium	R equ - Rhodococcus equi	Salm E - Salmonella species group E
G ana - Gallibacterium anatis		