

Porcine 2009	Susceptibility profile of Porcine pathogens received at ISU VDL in 2009												
	A suis	APP	B bron	E coli	Erys	H ecol	HPS	Pmul A	Pmul D	S chol	S suis	Salm B	Salm E
Number of isolates*	256	128	34	570	35	986	410	611	302	42	908	459	64
Data reported as % susceptible													
Ampicillin	96%	75%	21%	29%	97%	25%	99%	99%	98%	40%	99%	29%	55%
Ceftiofur	100%	96%	0%	58%	100%	61%	100%	100%	100%	98%	99%	76%	67%
Chlortetracycline	95%	70%	100%	6%	11%	6%	99%	98%	97%	24%	17%	7%	25%
Clindamycin	0%	2%	0%	0%	63%	0%	2%	0%	0%	0%	25%	0%	0%
Danofloxacin	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Enrofloxacin	100%	98%	91%	91%	97%	99%	100%	100%	100%	100%	97%	97%	98%
Florfenicol	100%	98%	76%	11%	34%	20%	100%	100%	100%	100%	98%	3%	9%
Gentamicin	94%	3%	100%	68%	9%	62%	85%	97%	99%	100%	96%	79%	72%
Neomycin	86%	2%	94%	63%	3%	58%	54%	97%	96%	100	64%	70%	67%
Oxytetracycline	64%	11%	97%	6%	11%	4%	94%	80%	58%	24%	6%	7%	25%
Penicillin	2%	13%	0%	0%	97%	0%	31%	87%	91%	0%	88%	0%	0%
Spectinomycin	0%	2%	0%	0%	83%	0%	33%	1%	0%	0%	5%	0%	0%
Sulfadimethoxine	95%	45%	12%	26%	9%	19%	39%	44%	42%	21%	38%	5%	2%
Tiamulin	86%	95%	0%	0%	71%	1%	96%	73%	20%	0%	92%	0%	0%
Tilmicosin	94%	74%	6%	0%	80%	0%	88%	87%	29%	0%	27%	0%	0%
Trimethoprim / Sulphamethoxazole	100%	0%	50%	72%	57%	74%	95%	57%	0%	100%	99%	81%	84%
Tulathromycin	0%	26%	38%	0%	0%	0%	0%	36%	31%	0%	0%	0%	0%
Tylosin (Tartrate/Base)	0%	2%	0%	0%	0%	0%	0%	1%	0% (302)	0%	0%	0%	0%

Number of isolates*	E coli				Salm			
	117		73		<=2 ug/ml		>2ug/ml	
	<=2 ug/ml	>2 ug/ml	<=2 ug/ml	>2ug/ml	67%	32%	81%	19%
Carabadox****								

****A results of ≤2µg/ml for Carabadox 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)"

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 <=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 1st round of testing. This table represents additional Disk Diffusion testing for those isolates.
- NA Not applicable
ND Not done
NI No interpretation

A equ - <i>Actinobacillus equuli</i>	H ecol - hemolytic <i>E. coli</i>	S aur - <i>Staphylococcus aureus</i>
A suis - <i>Actinobacillus suis</i>	H som - <i>Histophilus somni</i>	S beta- <i>Beta Streptococcus</i> species
Abua - <i>Acinetobacter</i> species	HPS - <i>Haemophilus parasuis</i>	S can - <i>Streptococcus canis</i>
Amy - <i>Actinomyces</i> species	K pneu - <i>Klebsiella pneumoniae</i>	S chol - <i>Salmonella choleraesuis</i>
APP - <i>Actinobacillus pleuropneumoniae</i>	M bov - <i>Moraxella bovis</i>	S dysg - <i>Streptococcus dysgalactiae</i>
B bron - <i>Bordetella bronchiseptica</i>	M haem - <i>Mannheimia haemolytica</i>	S epi- <i>Staphylococcus epidermidis</i>
B tre - <i>Bibersteinia trehalosi</i> (formerly <i>Pasteurella trehalosi</i>)	P aer - <i>Pseudomonas aeruginosa</i>	S equi - <i>Streptococcus equi</i>
Bact - <i>Bacteroides</i> group	P cab - <i>Pasteurella caballii</i>	S equus - <i>Streptococcus equisimilis</i>
C diff - <i>Clostridium difficile</i>	P mult - <i>Pasteurella multocida</i>	S pint - <i>Staph pseudintermedius</i>
C perf - <i>Clostridium perfringens</i>	Past - <i>Pasteurella</i> species	S suis - <i>Streptococcus suis</i>
Clos - <i>Clostridium</i> species	Pec - <i>Peptococcus</i> species	S ube - <i>Streptococcus uberis</i>
E coli - <i>Escherichia coli</i>	Pes - <i>Peptostreptococcus</i> species	S zoo - <i>Streptococcus zooepidemicus</i>
E fael - <i>Enterococcus faecalis</i>	Pmul A - <i>Pasteurella multocida</i> Type A	Salm sp- <i>Salmonella</i> species
E faem - <i>Enterococcus faecium</i>	Pmul D - <i>Pasteurella multocida</i> Type D	Salm B - <i>Salmonella</i> species group B
Enc - <i>Enterococcus</i> species	Prot - <i>Proteus</i> species	Salm C1 - <i>Salmonella</i> species group C1
Ente - <i>Enterobacter</i> species	Prp - <i>Propionibacterium</i> species	Salm C2 - <i>Salmonella</i> species group C2
Erys - <i>Erysipelothrix</i>	Pseu - <i>Pseudomonas</i> species	Salm D - <i>Salmonella</i> species group D
Fus - <i>Fusobacterium</i>	R equ - <i>Rhodococcus equi</i>	Salm E - <i>Salmonella</i> species group E
G ana - <i>Gallibacterium anatis</i>		