

Porcine 2010

Susceptibility profile of Porcine pathogens received at ISU VDL in 2010

Data reported as: % susceptible (# isolates tested)¹

	APP	A suis	B bron	E coli	Erys	H ecol	HPS	Pmul A	Pmul D	Salm ²	Salm C1 ²	S suis
Ampicillin	78% (93)	98% (209)	27% (30)	27% (495)	93% (15)	21% (787)	100%(485)	99% (652)	99% (300)	32% (418)	60% (97)	99% (1081)
Ceftiofur	100% (93)	100%(209)	0% (30)	62% (495)	93% (15)	60% (787)	100%(485)	100%(652)	100% (300)	80% (418)	80% (97)	100%(1081)
Chlortetracycline	78% (93)	96% (209)	100% (30)	9% (495)	13% (15)	5% (787)	98% (485)	98% (652)	95% (300)	7% (418)	37% (97)	19% (1081)
Clindamycin	0% (93)	0% (209)	0% (30)	0% (495)	60% (15)	0% (787)	4% (485)	0% (652)	0% (300)	0% (418)	0% (97)	28% (1081)
Enrofloxacin	100% (93)	100%(209)	90% (30)	76% (495)	93% (15)	99% (787)	99% (485)	100%(652)	100% (300)	97% (418)	99% (97)	97% (1081)
Florfenicol	99% (93)	100%(209)	57% (30)	8% (495)	40% (15)	14% (787)	100%(485)	100%(652)	100% (300)	4% (418)	31% (97)	100%(1081)
Gentamicin	0% (93)	97% (209)	100% (30)	69% (495)	7% (15)	65% (787)	84% (485)	99% (652)	100% (300)	82% (418)	84% (97)	96% (1081)
Neomycin	1% (93)	93% (209)	97% (30)	63% (495)	0% (15)	53% (787)	46% (485)	97% (652)	95% (300)	72% (418)	85% (97)	72% (1081)
Oxytetracycline	13% (93)	73% (209)	100% (30)	8% (495)	13% (15)	4% (787)	93% (485)	28% (652)	59% (300)	7% (418)	37% (97)	5% (1081)
Penicillin	18% (93)	0% (209)	0% (30)	0% (495)	87% (15)	0% (787)	22% (485)	90% (652)	93% (300)	0% (418)	0% (97)	88% (1081)
Spectinomycin	2% (93)	0% (209)	0% (30)	1% (495)	73% (15)	0% (787)	38% (485)	1% (652)	1% (300)	0% (418)	0% (97)	8% (1081)
Sulfadimethoxine	37% (93)	94% (209)	10% (30)	22% (495)	7% (15)	15% (787)	31% (485)	35% (652)	26% (300)	3% (418)	28% (97)	37% (1081)
Tiamulin	96% (93)	95% (209)	0% (30)	0% (495)	67% (15)	1% (787)	95% (485)	80% (652)	37% (300)	0% (418)	1% (97)	93% (1081)
Tilmicosin	85% (93)	96% (209)	23% (30)	0% (495)	80% (15)	0% (787)	92% (485)	95% (652)	40% (300)	0% (418)	0% (97)	30% (1081)
Trimethoprim/ Sulphamethoxazole	3% (93)	100%(209)	43% (30)	65% (495)	53% (15)	71% (787)	96% (485)	0% (652)	0% (300)	86% (418)	90% (97)	98%(1081)
Tulathromycin	84% (93)	NI	100% (30)	NI	NI	NI	NI	99% (652)	99% (300)	NI	NI	0% (1081)
Tylosin (Tartrate/Base)	2% (93)	NI	NI	NI	NI	NI	NI	1% (652)	0% (300)	NI	NI	0% (1081)

E coli

Salm

<=2 ug/ml >2 ug/ml
76% (376) 24% (376)

<=2 ug/ml >2 ug/ml
66% (173) 34%(173)

Carabadox⁴

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 1 st 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		