

2013년 양돈 질병 세균 항생제 내성 검사 결과

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SAFETY! INNOVATION, PRECISION, CLEANLINESS

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1. 항생제 감수성/ 내성 기준

항생제 감수성/ 내성 기준

• 항생제 종류 및 기준(디스크 확산법 기준으로 검역원 자료 참조)

약제명	감수성	효과 중간	내성	약제명	감수성	효과 중간	내성
Amikacin(AK30)	17	13	6	Gentamicin(CN10)	17	13	6
Amoxicillin(AML30)	17	13	6	Linsmycin(LS109)	17	13	6
Amoxicillin/ Clavulanic acid(AMC30)	17	13	6	Neomycin(N30)	17	13	6
Cefazolin(KZ30)	17	14	6	Penicillin G(P10)	15	13	6
Tilmicosin(TIL15)	17	14	6	Tiamulin H.Fumarate(Ti25)	17	13	6
Colistin(CT10)	11	9	6	Streptomycin(S10)	15	11	6
Enrofloxacin(ENR5)	18	13	6	Tetracycline(T30)	23	18	6
Florfenicol(FFC25)	18	13	6	Trimethoprim/ Sulfamethoxazole(STX25)	18	15	6
Ceftiofur sodium(C2.5)	17	12	6	Tylosin tartrate(Ty25)	18	13	6

• 항생제 종류 및 기준

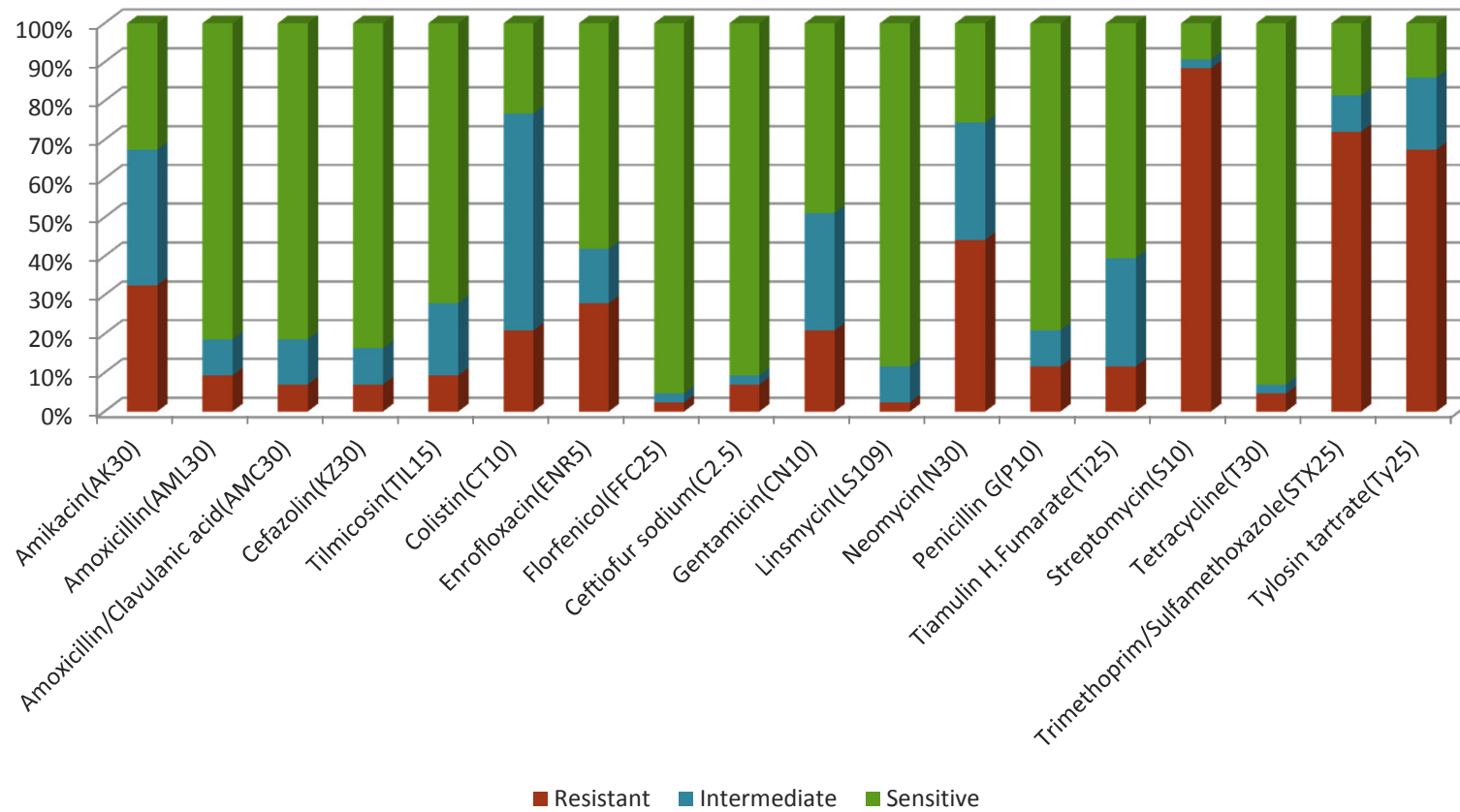
Sensitive(감수성)	감수성이 있다는 의미로 치료 효과를 기대할 수 있음.
Resistant(내성)	내성이 있다는 의미로 치료효과 없음.
Intermediate(효과 중간)	감수성과 내성의 중간 정도.

2. 호흡기 질병 4종 소화기 질병 3종

Haemophilus parasuis

약 제 명	농장수	Test	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Amikacin(AK30)	36	43	14	32.6%	15	34.9%	14	32.6%
Amoxicillin(AML30)			4	9.3%	4	9.3%	35	81.4%
Amoxycillin/ Clavulanic acid(AMC30)			3	7.0%	6	14.0%	34	79.1%
Cefazolin(KZ30)			3	7.0%	8	18.6%	32	74.4%
Tilmicosin(TIL15)			4	9.3%	8	18.6%	31	72.1%
Colistin(CT10)			1	2.3%	0	0.0%	42	97.7%
Enrofloxacin(ENR5)			12	27.9%	6	14.0%	25	58.1%
Florphenicol(FFC25)			1	2.3%	1	2.3%	41	95.3%
Ceftiofur sodium(C2.5)			2	4.7%	2	4.7%	39	90.7%
Gentamycin(CN10)			9	20.9%	13	30.2%	21	48.8%
Linsmycin(LS109)			1	2.3%	4	9.3%	38	88.4%
Neomycin(N30)			19	44.2%	13	30.2%	11	25.6%
Penicillin G(P10)			5	11.6%	1	2.3%	37	86.0%
Tiamulin H.Fumarate(Ti25)			5	11.6%	14	32.6%	24	55.8%
Streptomycin(S10)			33	76.7%	5	11.6%	5	11.6%
Tetracycline(T30)			7	16.3%	10	23.3%	26	60.5%
Trimethoprim/ Sulfamethoxazole(STX25)			34	79.1%	3	7.0%	6	14.0%
Tylosin tartrate(Ty25)			29	67.4%	11	25.6%	3	7.0%

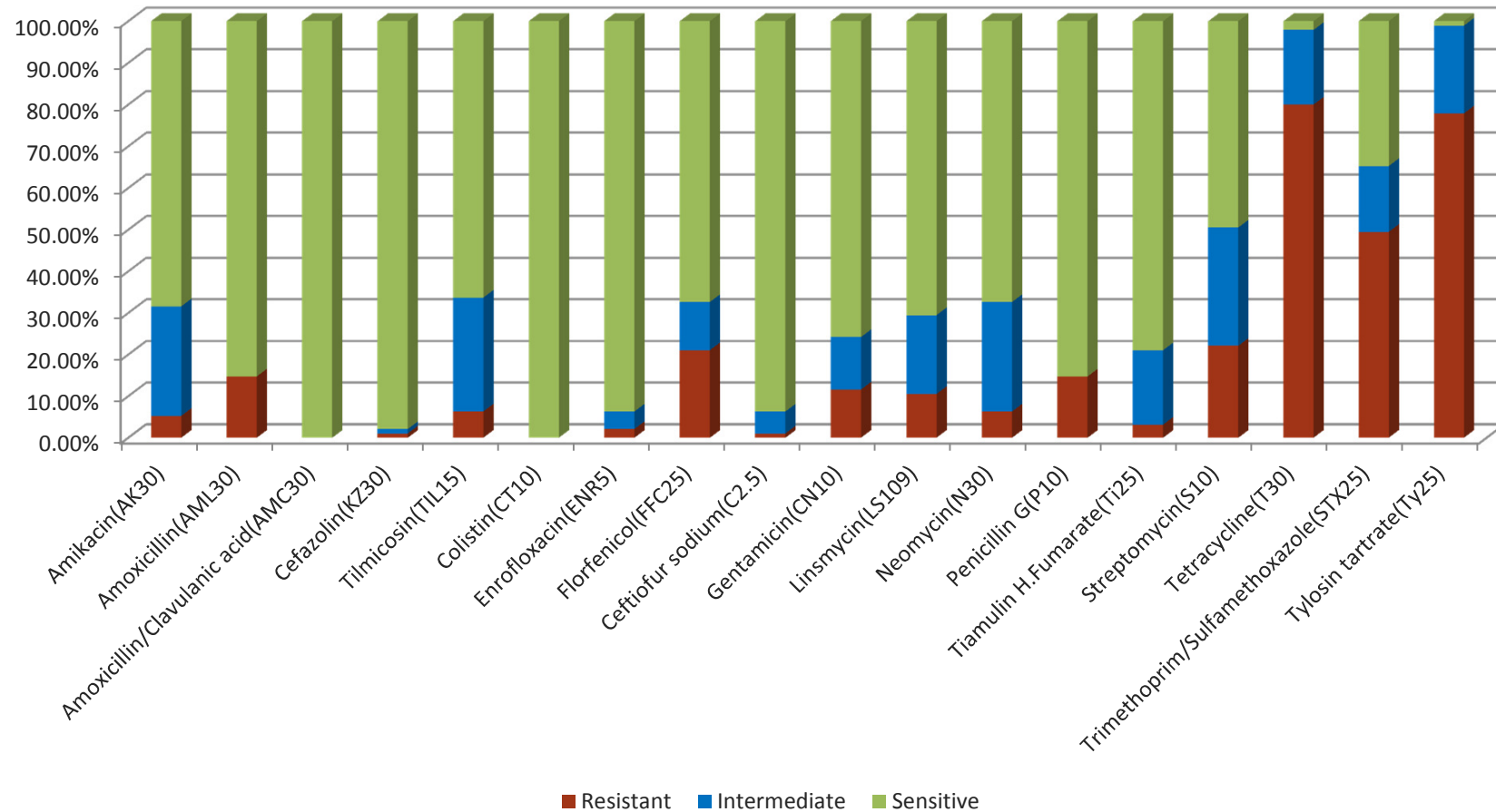
Haemophilus parasuis



Actinobacillus pleuropneumoniae

약 제 명	농장수	Test	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Amikacin(AK30)	66	98	23	23.5%	35	35.7%	40	40.8%
Amoxicillin(AML30)			28	28.6%	1	1.0%	69	70.4%
Amoxicillin/ Clavulanic acid(AMC30)			14	14.3%	2	2.0%	82	83.7%
Cefazolin(KZ30)			5	5.1%	4	4.1%	89	90.8%
Tilmicosin(TIL15)			36	36.7%	25	25.5%	37	37.8%
Colistin(CT10)			59	60.2%	33	33.7%	6	6.1%
Enrofloxacin(ENR5)			6	6.1%	14	14.3%	78	79.6%
Florphenicol(FFC25)			31	31.6%	10	10.2%	57	58.2%
Ceftiofur sodium(C2.5)			14	14.3%	13	13.3%	71	72.4%
Gentamicin(CN10)			30	30.6%	21	21.4%	47	48.0%
Linsmycin(LS109)			26	26.5%	26	26.5%	46	46.9%
Neomycin(N30)			40	40.8%	31	31.6%	27	27.6%
Penicillin G(P10)			24	24.5%	1	1.0%	73	74.5%
Tiamulin H.Fumarate(Ti25)			22	22.4%	31	31.6%	45	45.9%
Streptomycin(S10)			70	71.4%	25	25.5%	3	3.1%
Tetracycline(T30)			32	32.7%	48	49.0%	18	18.4%
Trimethoprim/ Sulfamethoxazole(STX25)			31	31.6%	12	12.2%	55	56.1%
Tylosin tartrate(Ty25)			85	86.7%	10	10.2%	3	3.1%

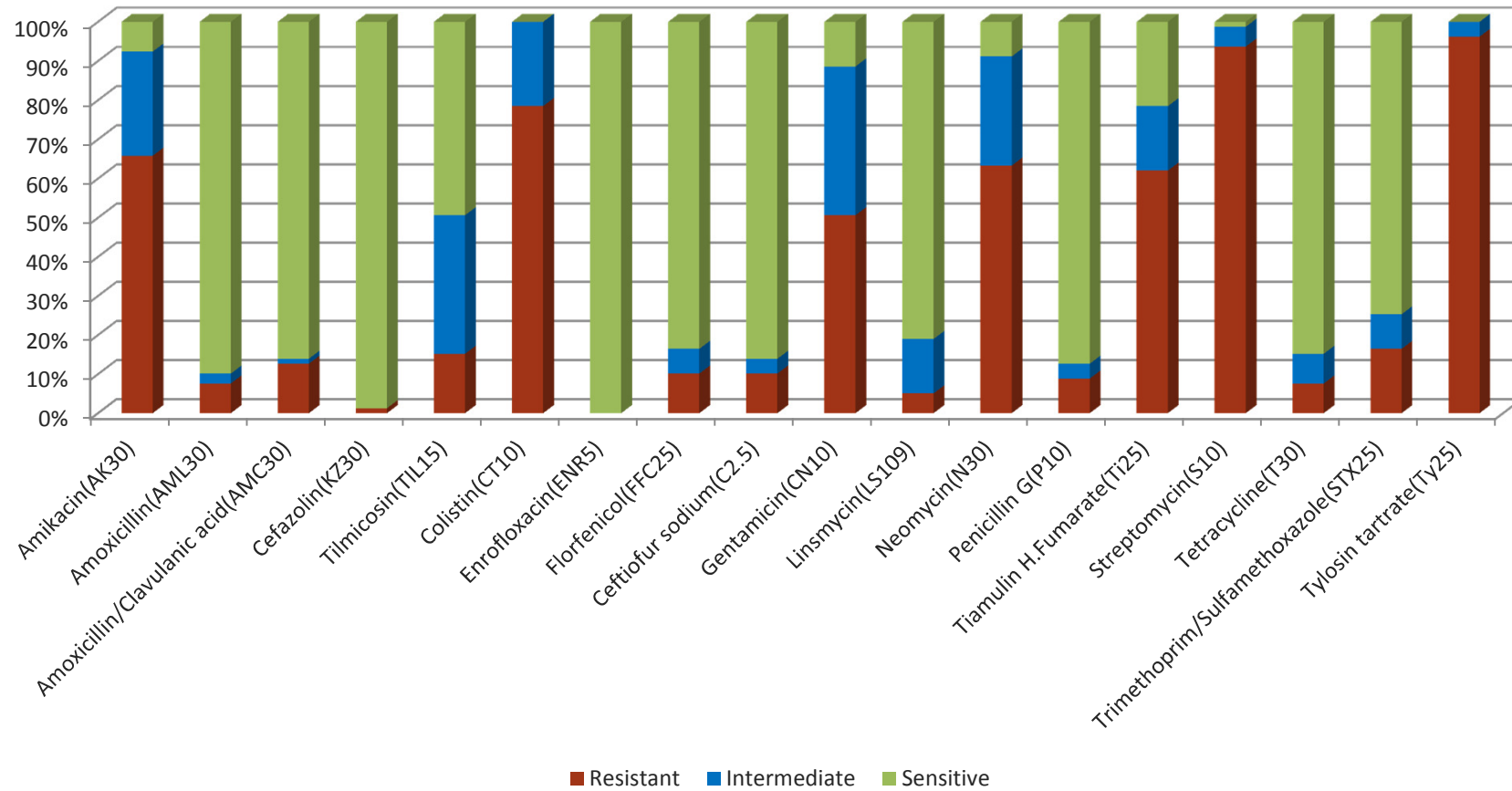
Actinobacillus pleuropneumoniae



Pasteurella multocida

약 제 명	농장수	검사횟수	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Amikacin(AK30)	59	79	52	65.8%	21	26.6%	6	7.6%
Amoxicillin(AML30)			6	7.6%	2	2.5%	71	89.9%
Amoxicillin/ Clavulanic acid(AMC30)			10	12.7%	2	2.5%	67	84.8%
Cefazolin(KZ30)			1	1.3%	1	1.3%	77	97.5%
Tilmicosin(TIL15)			7	8.9%	33	41.8%	39	49.4%
Colistin(CT10)			4	5.1%	14	17.7%	61	77.2%
Enrofloxacin(ENR5)			0	0.0%	1	1.3%	78	98.7%
Florphenicol(FFC25)			8	10.1%	7	8.9%	64	81.0%
Ceftiofur sodium(C2.5)			6	7.6%	5	6.3%	68	86.1%
Gentamycin(CN10)			40	50.6%	30	38.0%	9	11.4%
Linsmycin(LS109)			4	5.1%	11	13.9%	64	81.0%
Neomycin(N30)			50	63.3%	22	27.8%	7	8.9%
Penicillin G(P10)			7	8.9%	1	1.3%	71	89.9%
Tiamulin H. Fumarate(Ti25)			49	62.0%	22	27.8%	8	10.1%
Streptomycin(S10)			66	83.5%	11	13.9%	2	2.5%
Tetracycline(T30)			22	27.8%	37	46.8%	20	25.3%
Trimethoprim/ Sulfamethoxazole(STX25)			17	21.5%	9	11.4%	53	67.1%
Tylosin tartrate(Ty25)			76	96.2%	3	3.8%	0	0.0%

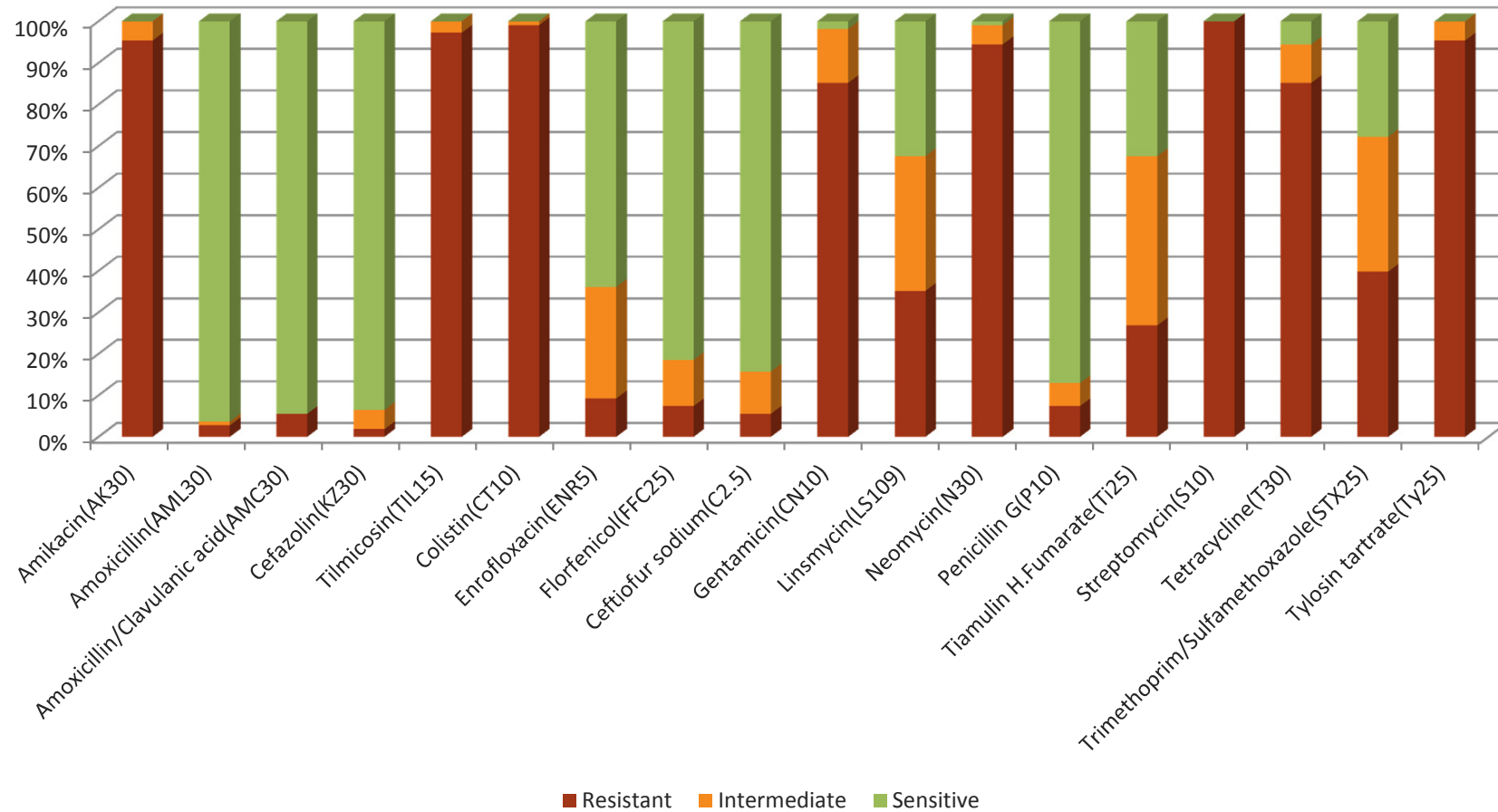
Pasteurella multocida



Streptococcus suis

약 제 명	농장수	검사횟수	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Amikacin(AK30)	67	108	103	95.4%	5	4.6%	0	0.0%
Amoxicillin(AML30)			3	2.8%	1	0.9%	104	96.3%
Amoxicillin/ Clavulanic acid(AMC30)			5	4.6%	3	2.8%	99	91.7%
Cefazolin(KZ30)			2	1.9%	9	8.3%	97	89.8%
Tilmicosin(TIL15)			105	97.2%	3	2.8%	0	0.0%
Colistin(CT10)			105	97.2%	0	0.0%	3	2.8%
Enrofloxacin(ENR5)			10	9.3%	55	50.9%	43	39.8%
Florphenicol(FFC25)			8	7.4%	27	25.0%	73	67.6%
Ceftiofur sodium(C2.5)			5	4.6%	12	11.1%	91	84.3%
Gentamycin(CN10)			92	85.2%	14	13.0%	2	1.9%
Linsmycin(LS109)			38	35.2%	35	32.4%	35	32.4%
Neomycin(N30)			102	94.4%	5	4.6%	1	0.9%
Penicillin G(P10)			8	7.4%	0	0.0%	100	92.6%
Tiamulin H.Fumarate(Ti25)			29	26.9%	55	50.9%	24	22.2%
Streptomycin(S10)			105	97.2%	3	2.8%	0	0.0%
Tetracycline(T30)			105	97.2%	2	1.9%	1	0.9%
Trimethoprim/ Sulfamethoxazole(STX25)			66	61.1%	37	34.3%	5	4.6%
Tylosin tartrate(Ty25)			103	95.4%	5	4.6%	0	0.0%

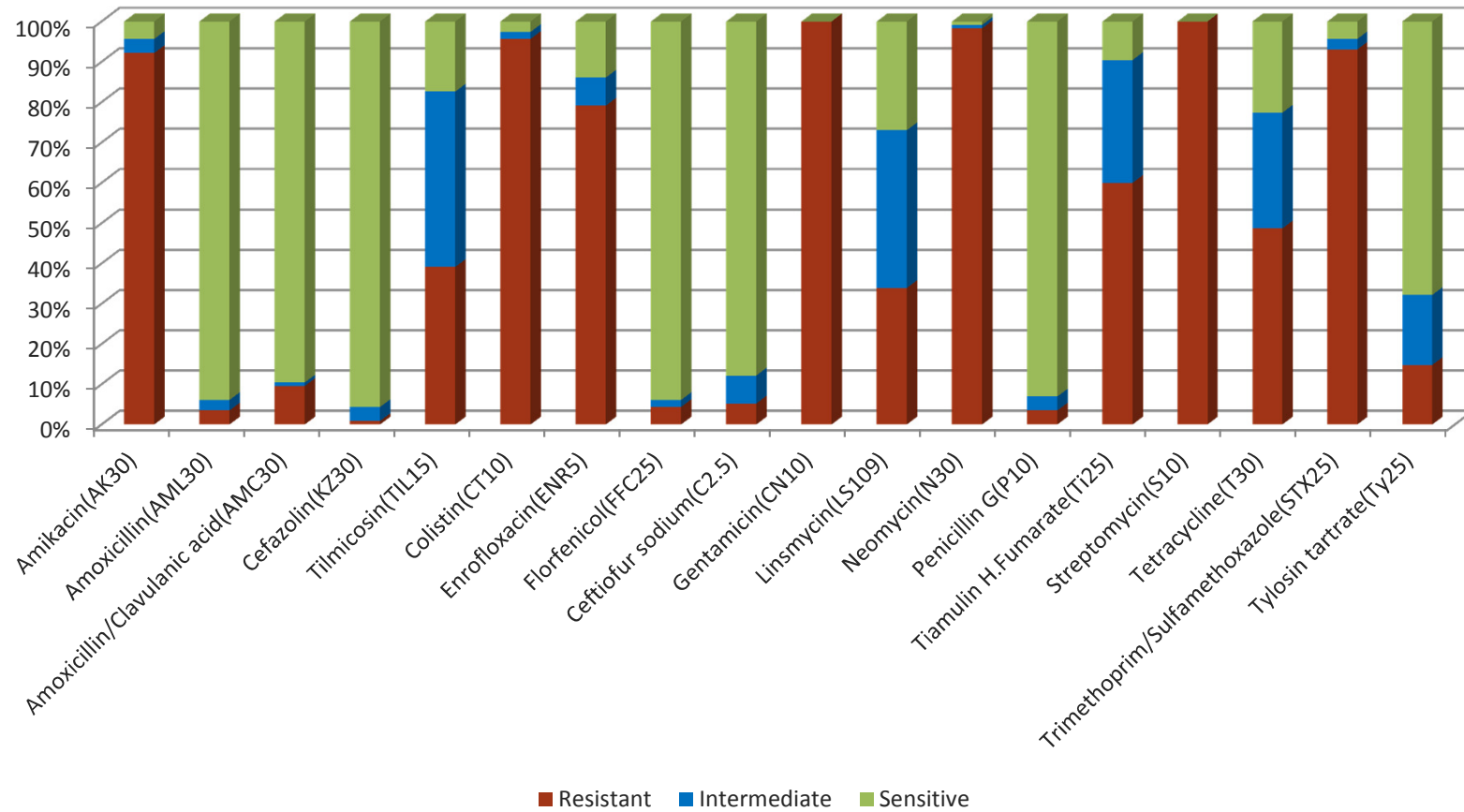
Streptococcus suis



Clostridium perfringens

약 제 명	농장수	Test	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Amikacin(AK30)	65	115	106	92.2%	4	3.5%	5	4.3%
Amoxicillin(AML30)			4	3.5%	3	2.6%	108	93.9%
Amoxycillin/ Clavulanic acid(AMC30)			11	9.6%	1	0.9%	103	89.6%
Cefazolin(KZ30)			1	0.9%	4	3.5%	110	95.7%
Tilmicosin(TIL15)			45	39.1%	50	43.5%	20	17.4%
Colistin(CT10)			110	95.7%	2	1.7%	3	2.6%
Enrofloxacin(ENR5)			91	79.1%	8	7.0%	16	13.9%
Florphenicol(FFC25)			5	4.3%	2	1.7%	108	93.9%
Ceftiofur sodium(C2.5)			6	5.2%	8	7.0%	101	87.8%
Gentamycin(CN10)			115	100.0%	0	0.0%	0	0.0%
Linsmycin(LS109)			39	33.9%	45	39.1%	31	27.0%
Neomycin(N30)			113	98.3%	1	0.9%	1	0.9%
Penicillin G(P10)			4	3.5%	4	3.5%	107	93.0%
Tiamulin H.Fumarate(Ti25)			69	60.0%	35	30.4%	11	9.6%
Streptomycin(S10)			115	100.0%	0	0.0%	0	0.0%
Tetracycline(T30)			56	48.7%	33	28.7%	26	22.6%
Trimethoprim/ Sulfamethoxazole(STX25)			107	93.0%	3	2.6%	5	4.3%
Tylosin tartrate(Ty25)			17	14.8%	20	17.4%	78	67.8%

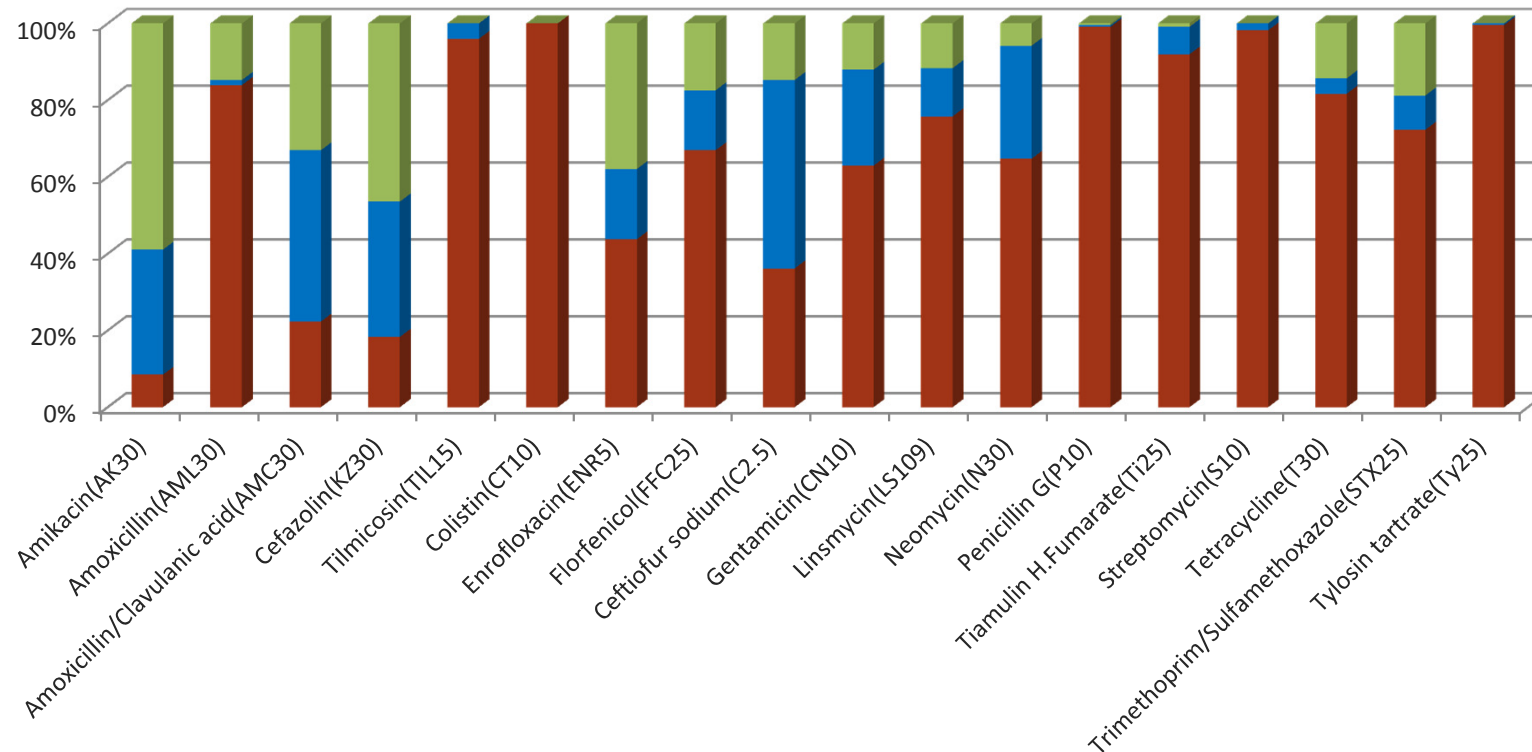
Clostridium perfringens



Escherichia coli

약 제 명	농장수	Test	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Amikacin(AK30)	114	224	19	8.5%	73	32.6%	132	58.9%
Amoxicillin(AML30)			188	83.9%	3	1.3%	33	14.7%
Amoxycillin/ Clavulanic acid(AMC30)			50	22.3%	142	63.4%	32	14.3%
Cefazolin(KZ30)			41	18.3%	113	50.4%	70	31.3%
Tilmicosin(TIL15)			213	95.1%	11	4.9%	0	0.0%
Colistin(CT10)			15	6.7%	27	12.1%	182	81.3%
Enrofloxacin(ENR5)			98	43.8%	55	24.6%	71	31.7%
Florphenicol(FFC25)			150	67.0%	54	24.1%	20	8.9%
Ceftiofur sodium(C2.5)			49	21.9%	142	63.4%	33	14.7%
Gentamycin(CN10)			141	62.9%	56	25.0%	27	12.1%
Linsmycin(LS109)			169	75.4%	28	12.5%	26	11.6%
Neomycin(N30)			145	64.7%	66	29.5%	13	5.8%
Penicillin G(P10)			222	99.1%	0	0.0%	2	0.9%
Tiamulin H.Fumarate(Ti25)			206	92.0%	16	7.1%	2	0.9%
Streptomycin(S10)			203	90.6%	19	8.5%	1	0.4%
Tetracycline(T30)			209	93.3%	15	6.7%	0	0.0%
Trimethoprim/ Sulfamethoxazole(STX25)			174	77.7%	27	12.1%	23	10.3%
Tylosin tartrate(Ty25)			223	99.6%	1	0.4%	0	0.0%

Escherichia coli



■ Resistant ■ Intermediate ■ Sensitive

Salmonella spp.(serogroup B)

약 제 명	농장수	검사횟수	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Amikacin(AK30)	11	17	0	0.0%	2	11.8%	15	88.2%
Amoxicillin(AML30)			15	88.2%	0	0.0%	2	11.8%
Amoxicillin/ Clavulanic acid(AMC30)			1	5.9%	9	52.9%	7	41.2%
Cefazolin(KZ30)			0	0.0%	6	35.3%	11	64.7%
Tilmicosin(TIL15)			17	100.0%	0	0.0%	0	0.0%
Colistin(CT10)			0	0.0%	1	5.9%	16	94.1%
Enrofloxacin(ENR5)			3	17.6%	3	17.6%	11	64.7%
Florfenicol(FFC25)			13	76.5%	0	0.0%	4	23.5%
Ceftiofur sodium(C2.5)			0	0.0%	16	94.1%	1	5.9%
Gentamicin(CN10)			10	58.8%	2	11.8%	5	29.4%
Linsmycin(LS109)			11	64.7%	4	23.5%	2	11.8%
Neomycin(N30)			3	17.6%	8	47.1%	6	35.3%
Penicillin G(P10)			17	100.0%	0	0.0%	0	0.0%
Tiamulin H.Fumarate(Ti25)			17	100.0%	0	0.0%	0	0.0%
Streptomycin(S10)			17	100.0%	0	0.0%	0	0.0%
Tetracycline(T30)			17	100.0%	0	0.0%	0	0.0%
Trimethoprim/ Sulfamethoxazole (STX25)			12	70.6%	2	11.8%	3	17.6%
Tylosin tartrate(Ty25)			17	100.0%	0	0.0%	0	0.0%

Salmonella spp.(serogroup B)

