

2013년 양계 질병 세균 항생제 내성 검사 결과

I Seul Oh

ACE of Optipharm

Family company of Easybio Group

ois@optipharm.co.kr

043-249-7522

Contents

- I. 항생제 내성/감수성 기준 및 용어 설명
- II. 양계 질병 3종 항생제 내성 검사 결과

1. 항생제 감수성/ 내성 기준

2014-02-13

SAFETY! INNOVATION, PRECISION, CLEANLINESS

3

항생제 감수성/ 내성 기준

• 항생제 종류 및 기준(디스크 확산법 기준으로 검역원 자료 참조)

약제명	감수성	효과 중간	내성	약제명	감수성	효과 중간	내성
Ampicillin(AMP10)	Gram -	16	13	Gentamicin(CN10)	17	13	6
	Gram +	28	27				
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
Collistin(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. 양계 세균성 질병 3종

2014-02-13

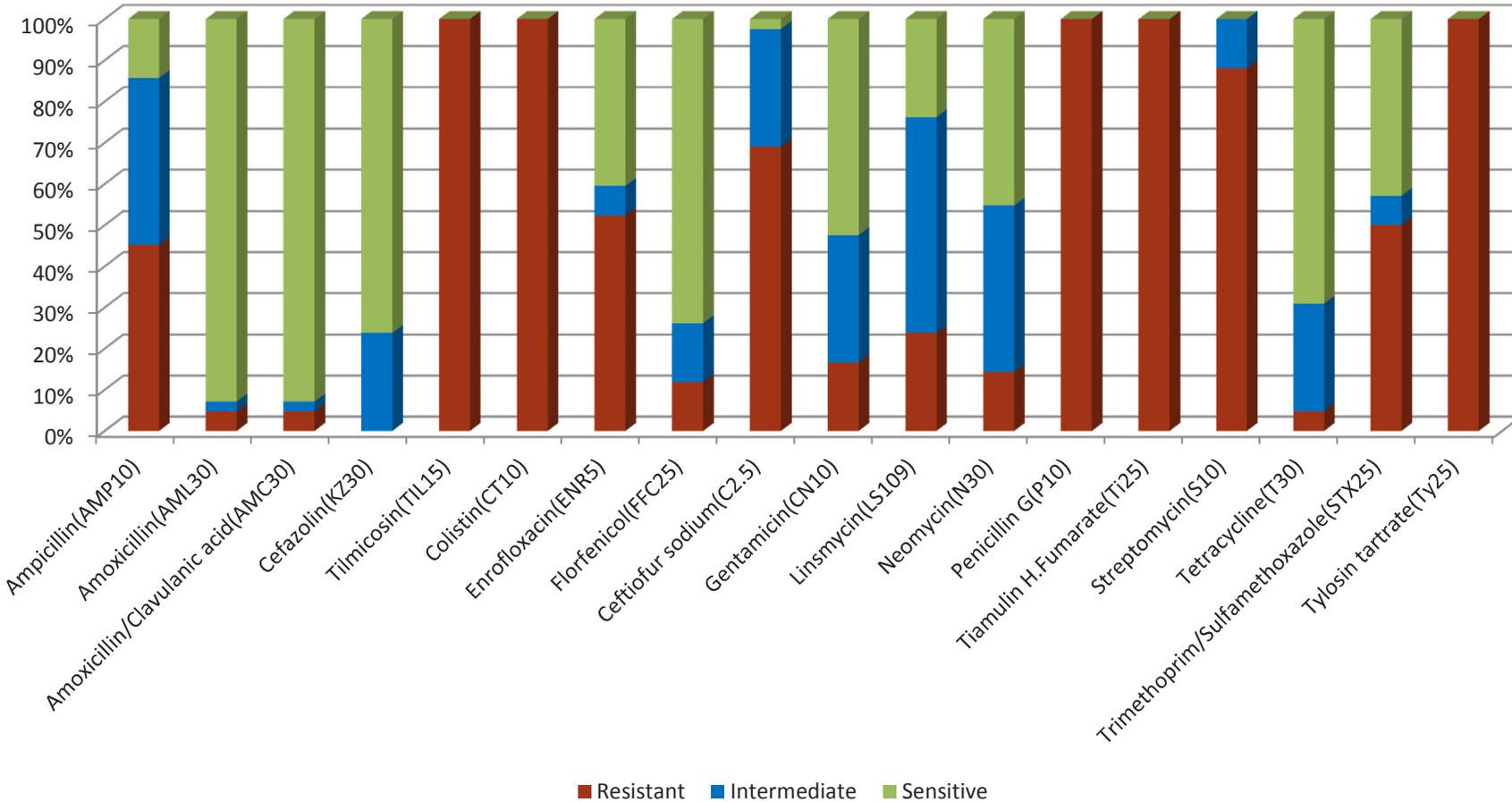
SAFETY! INNOVATION, PRECISION, CLEANLINESS

5

Salmonella spp.

약 제 명	농장수	검사횟수	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Ampicillin(AMP10)	18	42	19	45.2%	17	40.5%	6	14.3%
Amoxicillin(AML30)			2	4.8%	1	2.4%	39	92.9%
Amoxicillin/ Clavulanic acid(AMC30)			2	4.8%	1	2.4%	39	92.9%
Cefazolin(KZ30)			0	0.0%	10	23.8%	32	76.2%
Tilmicosin(TL15)			42	100.0%	0	0.0%	0	0.0%
Colistin(CT10)			42	100.0%	0	0.0%	0	0.0%
Enrofloxacin(ENR5)			22	52.4%	3	7.1%	17	40.5%
Florfenicol(FFC25)			5	11.9%	6	14.3%	31	73.8%
Ceftiofur sodium(C2.5)			29	69.0%	12	28.6%	1	2.4%
Gentamycin(CN10)			7	16.7%	13	31.0%	22	52.4%
Linsmycin(LS109)			10	23.8%	22	52.4%	10	23.8%
Neomycin(N30)			6	14.3%	17	40.5%	19	45.2%
Penicillin G(P10)			42	100.0%	0	0.0%	0	0.0%
Tiamulin H.Fumarate(Ti25)			42	100.0%	0	0.0%	0	0.0%
Streptomycin(S10)			37	88.1%	5	11.9%	0	0.0%
Tetracycline(T30)			2	4.8%	11	26.2%	29	69.0%
Trimethoprim/ Sulfamethoxazole(STX25)			21	50.0%	3	7.1%	18	42.9%
Tylosin tartrate(Ty25)			42	100.0%	0	0.0%	0	0.0%

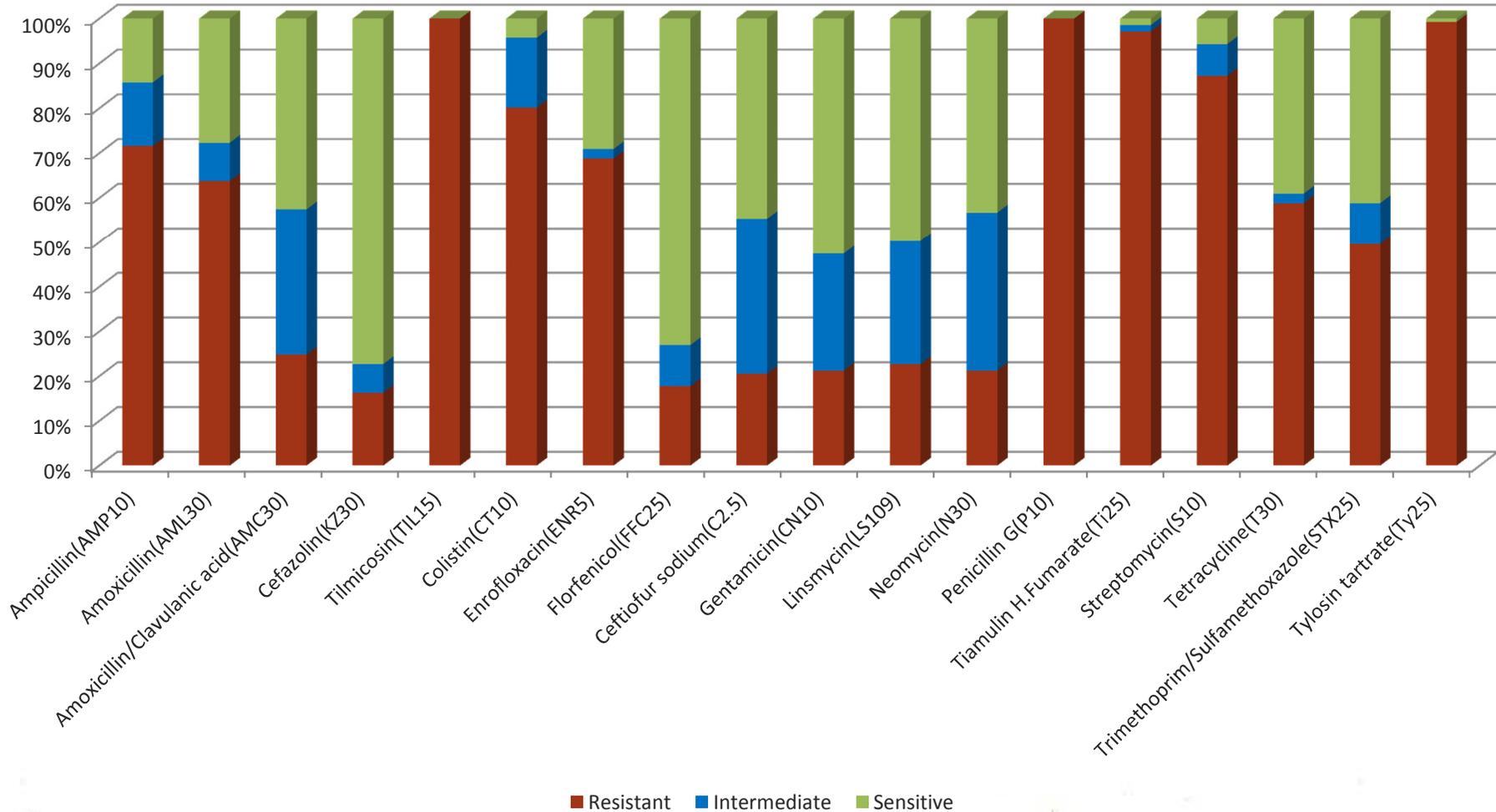
Salmonella spp.



Escherichia coli

약제명	농장수	검사횟수	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Ampicillin(AMP10)	50	141	101	71.6%	20	14.2%	20	14.2%
Amoxicillin(AML30)			90	63.8%	12	8.5%	39	27.7%
Amoxicillin/ Clavulanic acid(AMC30)			35	24.8%	46	32.6%	60	42.6%
Cefazolin(KZ30)			23	16.3%	9	6.4%	109	77.3%
Tilmicosin(TIL15)			141	100.0%	0	0.0%	0	0.0%
Colistin(CT10)			113	80.1%	22	15.6%	6	4.3%
Enrofloxacin(ENR5)			97	68.8%	3	2.1%	41	29.1%
Florphenicol(FFC25)			25	17.7%	13	9.2%	103	73.0%
Ceftiofur sodium(C2.5)			29	20.6%	49	34.8%	63	44.7%
Gentamycin(CN10)			30	21.3%	37	26.2%	74	52.5%
Linsmycin(LS109)			32	22.7%	39	27.7%	70	49.6%
Neomycin(N30)			30	21.3%	50	35.5%	61	43.3%
Penicillin G(P10)			141	100.0%	0	0.0%	0	0.0%
Tiamulin H.Fumarate(Ti25)			137	97.2%	2	1.4%	2	1.4%
Streptomycin(S10)			123	87.2%	10	7.1%	8	5.7%
Tetracycline(T30)			83	58.9%	3	2.1%	55	39.0%
Trimethoprim/ Sulfamethoxazole(STX25)			70	49.6%	13	9.2%	58	41.1%
Tylosin tartrate(Ty25)			140	99.3%	0	0.0%	1	0.7%

Escherichia coli



Clostridium perfringens

약제명	농장수	검사횟수	항생제 내성, 효과중간, 감수성 비율					
			Resistant		Intermediate		Sensitive	
			Test	%	Test	%	Test	%
Ampicillin(AMP10)	6	15	13	86.7%	0	0.0%	2	13.3%
Amoxicillin(AML30)			9	60.0%	1	6.7%	5	33.3%
Amoxicillin/ Clavulanic acid(AMC30)			9	60.0%	1	6.7%	5	33.3%
Cefazolin(KZ30)			13	86.7%	2	13.3%	0	0.0%
Tilmicosin(TIL15)			15	100.0%	0	0.0%	0	0.0%
Colistin(CT10)			15	100.0%	0	0.0%	0	0.0%
Enrofloxacin(ENR5)			15	100.0%	0	0.0%	0	0.0%
Florphenicol(FFC25)			15	100.0%	0	0.0%	0	0.0%
Ceftiofur sodium(C2.5)			15	100.0%	0	0.0%	0	0.0%
Gentamycin(CN10)			15	100.0%	0	0.0%	0	0.0%
Linsmycin(LS109)			15	100.0%	0	0.0%	0	0.0%
Neomycin(N30)			15	100.0%	0	0.0%	0	0.0%
Penicillin G(P10)			14	93.3%	1	6.7%	0	0.0%
Tiamulin H.Fumarate(Ti25)			15	100.0%	0	0.0%	0	0.0%
Streptomycin(S10)			15	100.0%	0	0.0%	0	0.0%
Tetracycline(T30)			15	100.0%	0	0.0%	0	0.0%
Trimethoprim/ Sulfamethoxazole(STX25)			15	100.0%	0	0.0%	0	0.0%
Tylosin tartrate(Ty25)			15	100.0%	0	0.0%	0	0.0%

Clostridium perfringens

