

Table S1: Minimum inhibitory concentration distribution for *E. coli* in fecal samples of broiler

Antimicrobial agent	Number of strains with MIC (mg/ml)																								No. of isolates
															Susceptible		Intermediate		Resistant		Wild type		Non-wild type		
	≤0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	
Gentamicin					*43	156	119	24	2	1	5	89			318	72	26	6	95	22	318	72	121	28	439
Tetracycline							*1	6	4		4	44	380		1	0	10	2	428	98	11	3	428	97	439
Ceftazidime					*415	4	2	2	8	8					421	96	10	2	8	2	419	95	20	5	439
Trimethoprim				*12	6	3	1								22	5	0	0	417	95	22	5	417	95	439
Ampicillin							13	17				3	406		30	7	0	0	409	93	30	7	409	93	439
Chloramphenicol									*73	98	58	60	50	100	0	0	171	39	268	61	171	39	268	61	439
Azithromycin									30	139	71	48	151		30	7	139	31	270	62	169	38	270	62	439
Nalidixic acid								*9	13	25	2	5	6	379	22	5	25	6	392	89	22	5	417	95	439
Colistin						*377	3	24	34	1					377	86	3	1	59	13	380	87	59	13	439
Cefotaxime				*417	3	2	4	1	12						420	96	6	1	13	3	417	95	22	5	439
Meropenem	*439														439	100	0	0	0	0	439	100	0	0	439
Ciprofloxacin	*7			2	27	18	10	18	19	338					7	2	29	6	403	92	7	2	432	98	439
Tigecycline				*201	136	79	17	2	1	3					-	-	-	-	-	-	337	77	102	23	439

Antimicrobial agent	Number of strains with MIC (mg/ml)																		No. of isolates		
											Susceptible		Intermediate		Resistant		Wild type			Non-wild type	
	≤8	16	32	64	128	256	512	1024	2048	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]		[%]	
Sulfamethaxole	*8	7	6	5					413	26	6	0	0	413	94	26	6	413	94	439	

* No visible growth at this concentration, meaning MIC is equal to or below this concentration. | -- CLSI breakpoint between susceptible and intermediate,

| -- CLSI breakpoint between intermediate and resistant and | -- ECOFF value between wild type and non-wild type.

Table S2: Minimum inhibitory concentration distribution for *E. coli* in environmental samples of broiler

Antimicrobial agent	Number of strains with MIC (mg/ml)																				No. of isolates																
															Susceptible		Intermediate		Resistant			Wild type		Non-wild type													
	≤0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	[n]	[%]	[n]	[%]	[n]	[%]		[n]	[%]	[n]	[%]												
Gentamicin					*3	52	26	3	1		1	11												81	84	4	4	12	12	81	84	16	16	97			
Tetracycline								*1	1			1	14	80												1	1	1	1	95	98	2	2	95	98	97	
Ceftazidime					*89	4	4												97	100	0	0	0	0	93	96	4	4	97								
Trimethoprim					*17	3	1													21	22	0	0	76	78	21	22	76	78	97							
Ampicillin								5	6		3	3	80												11	11	3	3	83	86	11	11	86	89	97		
Chloramphenicol										*28	36	3	12	7	11												0	0	64	66	33	34	64	66	33	34	97
Azithromycin										4	28	17	12	36												4	4	28	29	65	67	32	33	65	67	97	
Nalidixic acid									*11	13	8	3	1	61												24	25	8	8	65	67	24	25	73	75	97	
Colistin								*89	2	1	1	2	2												89	92	2	2	6	6	91	94	6	6	97		
Cefotaxime					*89	6	1												95	98	1	1	1	1	89	92	8	8	97								
Meropenem	*97																97	100	0	0	0	0	97	100	0	0	97										
Ciprofloxacin	*6			1	6	17	5	2	6	5	49												7	7	23	24	67	69	6	6	91	94	97				
Tigecycline					*29	43	22	3												-	-	-	-	-	-	72	74	25	26	97							

Antimicrobial agent	Number of strains with MIC (mg/ml)										Susceptible		Intermediate		Resistant		Wild type		Non-wild type		No. of isolates
	≤8	16	32	64	128	256	512	1024	2048	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]		
Sulfamethaxole	*8	4	2	1					82	15	15	0	0	82	85	15	15	82	85	97	

* No visible growth at this concentration, meaning MIC is equal to or below this concentration. | -- CLSI breakpoint between susceptible and intermediate,
 | -- CLSI breakpoint between intermediate and resistant and | -- ECOFF value between wild type and non-wild type.

Table S3: Minimum inhibitory concentration distribution for *E. coli* in fecal samples of Sonali

Antimicrobial agent	Number of strains with MIC (mg/ml)																						Susceptible		Intermediate		Resistant		Wild type		Non-wild type		No. of isolates
																type																	
	≤0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]									
Gentamicin					*24	75	81	14	1			57		180	71	15	6	57	23	180	71	72	29	252									
Tetracycline							*1				2	25	224	1	0	0	0	251	100	1	0	251	100	252									
Ceftazidime					*241	1	2	1	3	4				244	96	4	2	4	2	242	96	11	4	252									
Trimethoprim				*6	5	3		2			1		235	16	6	0	0	236	94	14	6	238	94	252									
Ampicillin						*1	8	8	2	1			232	17	7	3	1	232	92	19	8	233	92	252									
Chloramphenicol									36	40	15	29	28	104	0	0	76	30	176	70	76	30	176	70	252								
Azithromycin								1	7	62	33	29	120	8	3	62	25	182	72	70	28	182	72	252									
Nalidixic acid								*1	4	15	7	3		222	5	2	15	6	232	92	5	2	247	98	252								
Colistin						*227	4	10	10		1			227	90	4	2	21	8	231	92	21	8	252									
Cefotaxime				*238	5		3		6					243	97	3	1	6	2	238	94	14	6	252									
Meropenem		*252												252	100	0	0	0	0	252	100	0	0	252									
Ciprofloxacin	*1	1	2		11	11	13	9	20	184				4	2	11	4	237	94	2	1	250	99	252									
Tigecycline				*73	94	68	8	2	3	4				-	-	-	-	-	-	167	66	85	34	252									

Antimicrobial agent	Number of strains with MIC (mg/ml)																Wild type	Non-wild type		No. of isolates
											Susceptible		Intermediate		Resistant					
	≤8	16	32	64	128	256	512	1024	2048	[n]	[%]	[n]	[%]	[n]	[%]	[n]		[%]		
Sulfamethaxole	2	4	5					1	240	11	4	0	0	241	96	11	4	241	96	252

* No visible growth at this concentration, meaning MIC is equal to or below this concentration. | -- CLSI breakpoint between susceptible and intermediate,
 | -- CLSI breakpoint between intermediate and resistant and | -- ECOFF value between wild type and non-wild type.

Table S4: Minimum inhibitory concentration distribution for *E. coli* in environmental samples of Sonali

Antimicrobial agent	Number of strains with MIC (mg/ml)																								Susceptible		Intermediate		Resistant		Wild type		Non- wild type		No. of isolates
	≤0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256																					
	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]													
Gentamicin					*9	20	22		5		1	9		51	77	5	8	10	15	51	77	15	23	66											
Tetracycline							*3	5	2		3	5	48	3	5	7	10	56	85	10	15	56	85	66											
Ceftazidime					*63	1		1			1			65	98	0	0	1	2	64	97	2	3	66											
Trimethorim				*4	10	3						49		17	26	0	0	49	74	17	26	49	74	66											
Ampicilline								7	7	1		2	1	14	21	1	2	51	77	15	23	51	77	66											
Chloramphenicol										*22	23		1	0	0	45	68	21	32	45	68	21	32	66											
Azithromycin									1	21		11	16	1	2	21	32	44	67	22	33	44	67	66											
Nalidixic acid										*12	9		4	21	32	4	6	41	62	21	32	45	68	66											
Colistin						*54	2		1	5		4		54	82	2	3	10	15	56	85	10	15	66											
Cefotaxime				*63		1		2						64	97	2	3	0	0	63	95	3	5	66											
Meropenem			*66											66	100	0	0	0	0	66	100	0	0	66											
Ciprofloxacin	*7	3		1	2	10		3	2	4	1		33	11	17	12	18	43	65	10	15	56	85	66											
Tigecycline				*16	30		10	5	4	1				-	-	-	-	-	-	46	70	20	30	66											

Antimicrobial agent	Number of strains with MIC (mg/ml)																		No. of isolates		
											Susceptible		Intermediate		Resistant		Wild type			Non-wild type	
	≤8	16	32	64	128	256	512	1024	2048	[n]	[%]	[n]	[%]	[n]	[%]	[n]	[%]	[n]		[%]	
Sulfamethaxole	1	3	7	4	2				49	17	26	0	0	49	74	17	26	49	74	66	

* No visible growth at this concentration, meaning MIC is equal to or below this concentration. -- CLSI breakpoint between susceptible and intermediate,

-- CLSI breakpoint between intermediate and resistant and -- ECOFF value between wild type and non-wild type