

Article

Physiological Characteristics of Putative Enterobacteria Associated with Meat and Fish Available in Southern Brazilian Retail Markets: Antimicrobial Susceptibility, Toxic Metal Tolerance and Expression of Efflux Pumps

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Supplementary Information

Table S1 Antimicrobial resistance phenotypes observed among mesophilic facultatively anaerobic Gram-negative rods presumptively characterized as enterobacteria isolated from meat and fish samples in Southern Brazilian retail markets.

AMR phenotype	Number of bacteria isolates (n) and frequency (%)				
	Chicken	Beef	Pork	Fish	Total
	(n= 91)	(n= 91)	(n= 112)	(n= 136)	(n= 436)
CFZ	12 (13.2)	25 (27.5)	19 (17.0)	30 (22.1)	86 (20.0)
AMP	11 (12.1)	8 (8.8)	9 (8.0)	7 (5.1)	34 (7.9)
CFO	-	4 (4.4)	4 (3.6)	1 (0.7)	9 (2.0)
TET	-	1 (1.1)	3 (2.7)	1 (0.7)	5 (1.1)
SUT	-	-	2 (1.8)	1 (0.7)	3 (0.7)

ATM	1 (1.1)	-	-	1 (0.7)	2 (0.4)
AMP-CFZ	4 (4.4)	1 (1.1)	1 (0.9)	5 (3.7)	11 (2.5)
CFZ-CFO	3 (3.3)	2 (2.2)	2 (1.8)	1 (0.7)	8 (1.8)
AMP-TET	-	1 (1.1)	2 (1.8)	1 (0.7)	4 (0.9)
AMC-AMP	1 (1.1)	1 (1.1)	2 (1.8)	-	3 (0.7)
AMP-SUT	1 (1.1)	-	1 (.09)	-	2 (0.4)
SUT-TET	-	1 (1.1)	1 (0.9)	-	2 (0.4)
CFO-SUT	1 (1.1)	-	-	-	1 (0.2)
AMI-CLO	-	1 (1.1)	-	-	1 (0.2)
AMP-CFO	-	1 (1.1)	-	-	1 (0.2)
CFO-TET	-	-	1 (0.9)	-	1 (0.2)
ATM-CAZ	1 (1.1)	-	-	-	1 (0.2)
AMC-CFZ-AMP	4 (4.4)	4 (4.4)	9 (8.1)	4 (2.9)	21 (4.8)
AMC-CFO-AMP	-	-	-	-	5 (1.1)
AMP-AMC-CFZ	-	-	-	-	7 (1.6)
AMP-CLO-SUT	1 (1.1)	-	1 (0.9)	-	2 (0.4)
AMP-AMC-CFO	1 (1.1)	-	-	-	1 (0.2)
AMP-CFZ-CFO	1 (1.1)	-	-	-	1 (0.2)
CFZ-SUT-TET	-	1 (1.1)	-	-	1 (0.2)
AMP-CFZ-TET	-	-	1 (0.9)	-	1 (0.2)
AMP-CIP-CLO	-	-	1 (0.9)	-	1 (0.2)
AMP-SUT-TET	-	-	-	1 (0.7)	1 (0.2)

CLO-SUT-TET	-	-	-	1 (0.7)	1 (0.2)
AMP-AMC-CFZ-CFO	14 (15.4)	12 (13.2)	10 (8.9)	6 (4.4)	42 (9.7)
AMP-CFZ-CFO-CLO	2 (2.2)	-	1 (0.9)	-	3 (0.7)
AMP-AMC-CFZ-TET	1 (1.1)	-	-	-	1 (0.2)
AMP-CIP-LEV-TET	1 (1.1)	-	-	-	1 (0.2)
AMP-AMC-CFZ-CAZ	1 (1.1)	-	-	-	1 (0.2)
AMC-CFZ-CFO-TET	-	-	-	1 (0.7)	1 (0.2)
AMP-AMC-CFZ-CFO-TET	1 (1.1)	1 (1.1)	1 (0.9)	1 (0.7)	4 (0.9)
AMP-AMC-CFZ-CLO-SUT	-	-	2 (1.8)	-	2 (0.4)
ATM-CPM-CFO-CAZ-CRO	-	-	-	2 (1.5)	2 (0.4)
AMP-AMC-ATM-CFZ-CAZ	1 (1.1)	-	-	-	1 (0.2)
AMP-AMC-CFZ-CFO-CLO	1 (1.1)	-	-	-	1 (0.2)
AMP-AMC-CIP-CLO-LEV- TET	1 (1.1)	1 (1.1)	2 (1.8)	-	4 (0.9)

AMP = ampicillin, 10 µg; ATM = aztreonam, 30 µg; AMC = amoxicillin/clavulanic acid, 30 µg, AMI = amikacin, 30 µg, GEN gentamicina, 10 µg; CIP = ciprofloxacin, 5 µg; LEV = levofloxacin, 5 µg; CFZ = cefazolin, 30 µg; CFO = ceftazidime, 30 µg; CAZ = ceftazidime, 30 µg; CRO = ceftriaxone, 30 µg; COM = cefepime, 30 µg; CLO = chloramphenicol, 30 µg; MPM = meropenem, 10 µg; SUT = sulfamethoxazole/trimethoprim, 25 µg; TET = tetracycline, 30 µg.