

Supplementary Table S1: Prevalence of antibiotic residues in milk and milk product samples using Delvotest SP-NT and HPLC analysis

Type of samples (N)	Delvotest SP-NT		Antibiotic tested by HPLC (N, %)				HPLC	
	No. of positive samples	% of positive (95 % CI)	Ampicillin	Amoxicillin	Tetracycline	Oxytetracycline	Overall positive	Overall percentage (95 % CI)
Pasteurized milk (50)	14	28 (15-41)	6 (12)	3 (6)	3 (6)	5 (10)	15 ^a	30 (17-43) ^a
Sterilized milk (50)	12	24 (12-36)	4 (8)	2 (4)	5 (10)	4 (8)	14 ^b	28 (15-41) ^b
White soft cheese (50)	13	26 (13-39)	3 (6)	4 (8)	4 (8)	3 (6)	13 ^c	26 (13-39) ^c
Processed cheese (50)	9	18 (7-29)	4 (8)	3 (6)	3 (6)	3 (6)	12 ^d	24 (12-36) ^d
p-value	0.73		0.811	0.976	0.935	0.935		0.95
Total samples (200)	48	24 (18-30)	17 (8.5)	12 (6)	15 (7.5)	15 (7.5)	54 ^e	27 (21-33) ^e

^aTwo samples were contaminated with two groups of antibiotics (Ampicillin & Amoxicillin, and Tetracycline & Oxytetracycline).

^bOne sample was contaminated with two groups of antibiotics (Tetracycline and Oxytetracycline).

^cOne sample was contaminated with two groups of antibiotics (^bOne sample was contaminated with two groups of antibiotics (Tetracycline and Oxytetracycline).

^dOne sample was contaminated with two groups of antibiotics (Tetracycline and Oxytetracycline).

^eFive samples were contaminated with more than one group of antibiotics.

Supplementary Table S2: Concentration of different antibiotic residues in milk and cheese samples using HPLC

Antibiotic tested	Sample type	No. of positive samples (%)	Minimum concentration (µg/l)	Maximum concentration (µg/l)	Mean ± SEM (µg/l)
Ampicillin	Pasteurized Milk	6 (12)	3.20	3.70	3.45 ± 0.25
	Sterilized Milk	4 (8)	3.22	3.78	3.54 ± 0.27
	White soft cheese	3 (6)	2.44	3.34	3.45 ± 0.23
	Processed cheese	4 (8)	3.21	3.89	3.89 ± 0.28
	<i>p</i>-value				0.738
Amoxicillin	Total samples	17 (8.5)	2.44	3.89	3.492 ± 0.094
	Pasteurized Milk	3 (6)	3.20	3.70	3.45 ± 0.25
	Sterilized Milk	2 (4)	3.55	3.88	3.72 ± 0.17
	White soft cheese	4 (8)	3.11	3.90	3.65 ± 0.24
	Processed cheese	3 (6)	3.13	5.5	3.95 ± 0.15
Tetracycline	<i>p</i>-value				0.88
	Total samples	12 (6)	3.11	5.5	3.685 ± 0.186
	Pasteurized Milk	3 (6)	144.5	180.70	160.45 ± 0.24
	Sterilized Milk	5 (10)	95.3	191.3	130 ± 0.22
	White soft cheese	4 (8)	54.13	90.11	75.12 ± 0.31
Oxytetracycline	Processed cheese	3 (6)	69.12	220.3	170.3 ± 0.27
	<i>p</i>-value				0.828
	Total samples	15 (7.5)	54.13	220.3	129.477 ± 14.22
	Pasteurized Milk	5 (10)	45.5	160.70	120.45 ± 0.25
	Sterilized Milk	4 (8)	65.3	91.3	77.8 ± 0.28
Oxytetracycline	White soft cheese	3 (6)	41.55	87.44	72.23 ± 0.21
	Processed cheese	3 (6)	54.44	90.12	82.4 ± 0.27
	<i>p</i>-value				0.438
	Total samples	15 (7.5)	41.55	160.7	91.86 ± 9.92