



## Technical Bulletin

# DELVOTEST® Fast Q

### Sensitivity of Delvotest® Fast Q

Delvotest® Fast Q is a qualitative detection of antibiotic residues in raw milk, namely  $\beta$ -lactams, tetracyclines, sulfonamide and quinolone. Delvotest® Fast Q is based on immunochromatographic technology to qualitatively detect antibiotic residues in milk. The list below is not exhaustive and valid for Delvotest® Fast Q, the sensitivity of the test is given only for the most commonly used antibiotics. The level of detection is indicative based on 100% positive on 10 out of 10 samples tested.

#### Raw Cow Milk:

Antibiotic class	Antibiotic	S/TL	MRL	**** Codex	Level of detection Cow Milk
		(US)**	(EU)***	Alimentarius	
PPB (Parts Per Billion) ( $\mu\text{g}/\text{Kg}$ )					
Penicillins	Penicillin G	5	4	4	2
	Ampicillin	10	4	-	2-4
	Amoxicillin	10	4	4	3-4
	Oxacillin	-	30	-	10
	Dicloxacillin	-	30	-	5-10
	Nafcillin	-	30	-	15
	Cloxacillin	10	30	-	10
Cephalosporins	Ceftiofur*	100	100	100	5
	Cefquinome	-	20	-	10
	Cefazolin	-	50	-	30
	Cephapirin*	20	60	-	10-15
	Cefacetrile	-	125	-	35
	Cefoperazone	-	50	-	10-15
	Cefalexin	-	100	-	> 500
Cefalonium	-	20	-	2-3	
Tetracyclines	Tetracycline*	300	100	100	80-100
	Oxytetracycline*	300	100	100	60-80
	Chlortetracycline*	300	100	100	500
	Doxycycline	-	0	-	>1000

Antibiotic class	Antibiotic	S/TL	MRL	**** Codex	Level of detection Cow Milk
		(US)**	(EU)***	Alimentarius	
PPB (Parts Per Billion) ( $\mu\text{g}/\text{Kg}$ )					
Quinolones	Norfloxacin	-	-	-	10
	Enrofloxacin*	-	100	-	10-15
	Danofloxacin	-	30	-	10-15
	Oxolinic acid	-	-	-	10-20
	Ciprofloxacin*	-	100	-	10-20
	Flumequine	-	50	-	75-130
	Nalidixic	-	-	-	50-70
	Sarafloxacin	-	-	-	>500
	Marabofloxacin	-	-	-	100
Sulfonamides	Sulfachlorpyridazine	10	100	-	10-15
	Sulfadimethoxine	0/10**	100	-	40-50
	Sulfadiazine	10	100	-	100-120
	Sulfamerazine	10	100	-	80-100
	Sulfaquinoxaline	10	100	-	35
	Sulfadoxine	-	100	-	>1000
	Sulfamethizole	10	100	-	30
Sulfapiridine	10	100	-	150	

\*Sum of parent and metabolite drug, \*\*FDA-CFSAN M-1-18-9, \*\*\*EU-REG 37/2010, \*\*\*\*CODEX CX MRL 2-2018



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