

Technical Bulletin

Sensitivity of Delvotest® T for Goat and Sheep milk

Delvotest® T

20221122

The table presented in this document is an indicative list of the sensitivity of the Delvotest® T for ovine/caprine milk samples at control time for the most used antibiotics in the world. This list is not exhaustive. The test is sensitive to many more antibiotic drugs and sulfonamides. Values presented in this list are ppb (parts per billion) equaling µg/Kg or ng/gram.

The best sensitivity is reached when using control time (CT). To test at control time, additionally to the milk you would like to test, perform one additional test with negative control milk, when the test containing the negative control milk turns yellow read the test result of the other milk. The sensitivity of the test when using a fixed reading incubation time can be decreased. The required incubation time (CT) for sheep and goat milk takes approximately 10-30 minutes longer than cow milk.

Antibiotic class	Antibiotic	MRL for Caprine & Ovine milk				Caprine/ Goat milk		Ovine/ Sheep milk	
		EU MRL ppb	USA S/TL ppb	CODEX ppb	India FSSAI ppb	CCβ**		CCβ**	
						Ampoules ppb	Plates ppb	Ampoules ppb	Plates ppb
Penicillins	Amoxicillin	4	*	4 (s)	*	2	2	2	2
	Ampicillin	4	*	*	10	2	2	2	2
	Cloxacillin	30	*	*	10	8	16	10	18
	Nafcillin	30	*	*	*	2	4	3	5
	Oxacillin	30	*	*	*	2	4	2	5
	Penicillin G	4	5	*	*	1	1	1	1
Cephalosporins	Cefalexin	*	*	*	*	30	45	30	50
	Cefalonium	*	*	*	*	5	10	5	12
	Cefazolin	50	*	*	*	3	5	3	5
	Cefoperazone	*	*	*	*	14	25	14	25
	Ceftiofur	100	100 (g)	*	*	12	20	16	25
	Cephapirin	*	*	*	10	3	5	3	5
Tetracyclines	Oxytetracycline	100	*	100 (s)	100	150	125	>160	150
	Tetracycline	100	*	100 (s)	100	150	125	200	150

Antibiotic class	Antibiotic	MRL for Caprine & Ovine milk				Caprine/ Goat milk		Ovine/ Sheep milk	
		EU MRL ppb	USA S/TL ppb	CODEX ppb	India FSSAI ppb	CCβ**		CCβ**	
						Ampoules ppb	Plates ppb	Ampoules ppb	Plates ppb
Sulfonamides	Sulfadiazine	100	*	*	10	30	25	35	35
	Sulfadimethoxine	100	*	*	*	20	20	30	30
	Sulfadoxine	100	*	*	*	70	60	70	80
	Sulfathiazole	100	*	*	10	30	30	35	35
Aminoglycosides	Gentamycin	*	*	*	*	125	125	140	225
	Neomycin	1500	150	*	*	150	225	300	600
Macrolides	Tylosin A	50	*	*	*	70	70	70	90
Others	Riflaximin	*	*	*	*	50	50	70	70

* not listed for sheep or goat milk

** CCβ detection capability is the lowest concentration where a substance can be detected with 95% probability.

(s) listed only for ovine/sheep milk

(g) listed only for caprine/goat milk

Delvotest® T sensitivity for ovine/caprine milk listed as CCβ as determined (according to European legislation) by internal validation study in 2022.

Legislation regulation references

EU-MRL EC 37/2010

USA S/TL FDA CFR-Title 21, Vol 6, 21CFR556.68

CODEX CX/MRL 2-2021

FSSAI Compendium_Contaminants_Regulation_20_08_2020

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