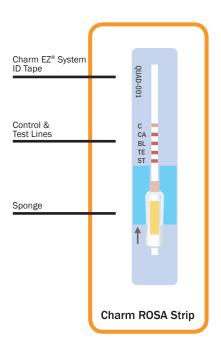
Charm QUAD Test

for Milk



Product Overview





Charm® ROSA® (Rapid One Step Assay) technology is trusted by the dairy industry worldwide for fast and accurate milk residue screening. The **Charm QUAD Test (QUAD)** detects chloramphenicol, beta-lactam, tetracycline, and streptomycin drugs in raw commingled milk meeting the Russian Technical Regulation of the Customs Union. The QUAD test may also be used to test at or below EU/CODEX Maximum Residue Limit (MRL) and EU Minimum Required Performance Limit (MRPL).

QUAD Test:

- Achieves results in 5 minutes
- Detects chloramphenicol, beta-lactam, tetracycline, and streptomycin drugs
- Incubates at 40 ± 1 °C
- Meets Russian Technical Regulation of the Customs Union
- Meets EU/CODEX MRL and EU MRPL
- Independently validated by ILVO in Belgium

Simple Procedure





For batch processing, incubate multiple strips simultaneously, then read results in the Charm EZ system.





Sensitivity in Milk

Beta-lactam Drug	Detection Range ^A (ppb ^B)	EU/CODEX MRL (ppb ^B)	Tetracycline Drug (ppb ^B)	Detection Range ^A	Russian Technical Regulation ⁰
Amoxicillin	3 to 5	4	Chlortetracycline	4 to 6	10
Ampicillin	3 to 4	4	Doxycycline	6 to 10	10
Cefacetrile	20 to 40	125	Oxytetracycline	4 to 6	10
Cefalonium	8 to 12	20	Tetracycline	3 to 6	10
Cefazolin	20 to 40	50	Amphenicol Drug	Detection Range ^A (ppb ^B)	EU MRPL ^E and Russian Technical Regulation (ppb ^B)
Cefoperazone	1 to 3	50	Chloramphenicol	0.2 to 0.3	0.3
Cefquinome	10 to 20	20			
Ceftiofur and Metabolites ^c	30 to 40	100 / 100	Aminoglycoside Drug	Detection Range ^A (ppb ^B)	EU/CODEX MRL an
Cephapirin	20 to 35	60			Regulation ^D (ppb ^B)
Cloxacillin	20 to 30	30	Dihydro-streptomycin	75 to 150	200 / 200
Dicloxacillin	20 to 30	30			
Penicillin G	2 to 3	4/4	Streptomycin	75 to 150	200 / 200

A Positive at least 95% of the time.

Ordering Info

Order Codes	Each Kit Includes
LF-QUAD-RUS-20K LF-QUAD-RUS-100K	Test Strips and Positive Controls

See Operator's Manual for additional kits and order codes



B parts per billion, μg/kg or μg/L

^c Ceftiofur parent drug sensitivity is approximately 1/2 that reported in the table.

 $^{^{\}rm D}$ Russian Technical Regulation of the Customs Union on Safety of Milk and Dairy Products (TR TS 033/2013)

E Minimum Required Performance Limit