



# **Charm QUAD Test** for Milk

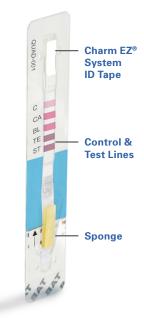
#### **Product Overview**

The Charm<sup>®</sup> QUAD<sup>®</sup> Test (QUAD) delivers rapid and accurate results using ROSA<sup>®</sup> (Rapid One Step Assay) lateral flow technology. The QUAD test 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).

#### **Benefits of QUAD Test Include:**

- 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
- Validated by ILVO Institute for Agricultural and Fisheries Research (ILVO), Belgium



**Charm ROSA Strip** 

#### Simple Procedure with the Charm EZ System





For Batch Processing Incubate multiple strips simultaneously, then read results in the Charm EZ system.



## Sensitivity in Milk

Detection Ranges in Cow Milk at 0 to 7 °C	
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	Beta-lactam Drug	Detection Range <sup>Ω</sup> (ppb*)	EU/CODEX MRL (ppb*)	Amphenicol Drug
	Amoxicillin	3 to 4 ppb	4 ppb	Chloramphenicol
	Ampicillin	3 to 4 ppb	4 ppb	cinoramphenicor
	Cefacetrile	20 to 40 ppb	125 ppb	Aminoglycoside
	Cefalonium	8 to 12 ppb	20 ppb	Drug
	Cefazolin	20 to 40 ppb	50 ppb	Dihydrostreptomycin
	Cefoperazone	1 to 3 ppb	50 ppb	Streptomycin
	Cefquinome	10 to 20 ppb	20 ppb	
	Ceftiofur and Metabolites^	30 to 40 ppb	100/100 ppb	Tetracycline Drug
	Cephapirin	20 to 35 ppb	60 <sup>§</sup> ppb	Chlortetracycline
	Cloxacillin	20 to 30 ppb	30 ppb	Doxycycline
	Dicloxacillin	20 to 30 ppb	30 ppb	Oxytetracycline
	Penicillin G	2 to 3 ppb	4/4 ppb	Tetracycline

Amphenicol Drug	Detection Range <sup>Ω</sup> (ppb*)	Russian Technical Regulation <sup>‡</sup> (ppb*)
Chloramphenicol	0.2 to 0.3 ppb	0.3 ppb
Aminoglycoside Drug	Detection Range <sup>Ω</sup> (ppb*)	EU MRPL <sup>§</sup> and Russian Technical Regulation (ppb*)
Dihydrostreptomycin	75 to 150 ppb	200/200 ppb
Streptomycin	75 to 150 ppb	200/200 ppb
Tetracycline Drug	etracycline Drug Detection Range <sup>Ω</sup> (ppb*)	
Chlortetracycline	4 to 6 ppb	10 ppb
Doxycycline	6 to 10 ppb	10 ppb
Oxytetracycline	4 to 6 ppb	10 ppb
Tetracycline	3 to 6 ppb	10 ppb

 $\Omega$  Positive at least 95% of the time.

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S Minimum Required Performance Limit
P parts per billion, µg/kg or µg/L
Russian Technical Regulation on Milk and Milk Products.
Federal Law No. 88 FL 88 of 12 June 2008

### **Ordering Information**

Order Codes	Each Kit Includes
LF-QUAD-RUS-40NSK	Test Strips
LF-QUAD-RUS-100K	Test Strips and Positive Controls

See Operator's Manual for additional kits and order codes.



#### www.charm.com

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