

MilkSafe™ FAST 3BTC

Product Information

Version: 3 PI GLOB EN 06-20-2022

Description

A one-step rapid detection assay for Beta-lactams including Cephalosporins, and Tetracyclines in milk, based on the colloidal gold immunochromatography technology.

Material No: 723731

Size 30 Tests

Contents:

- 30 bags incl. 30 disposable pipettes
- 1 pipette (200µL)
- 30 single pipette tips
- Positive control pack
- Product insert

Storage and handling

2 - 8 °C / 36 - 46 °F

Transport conditions

Transport under temperature conditions complying with the recommended storage temperature or at ambient temperature conditions (for up to 6 days at temperatures not exceeding 50°C / 122°F). After receiving the kit, store at recommended storage conditions.

Application

Usage

Intended for detection of Beta-lactams including Cephalosporins, and Tetracycline residues in raw commingled cow milk, pasteurized milk, full cream milk powder, goat and ewes milk (referring to table 1). The test employs binding reagents linked to gold particles, and is performed in one single step. The test result is interpreted visually by colored indicators on the dipstick or by use of a reader.

Dosage

The sample volume to add to the test is 200 µL by use of the supplied disposable pipette.

Directions for Use

Before opening the bag with the cassette, it should be equilibrated to room temperature for at least 10 minutes. The recommended milk dosage is added to the cassette by use of disposable pipette. Place the cassette in a pre-heated incubator and incubate for 3 minutes at 50°C ± 2°C. No matter the interpretation method (i.e. visually or electronic reader), the interpretation should be performed no later than 2 minutes after the incubation has been completed.

If testing milk powder, please reconstitute the powder correctly and thoroughly (no clumps present) to original solids content and verify that final pH is 6.5-7.0, adjusting if necessary.

Range

The Chr. Hansen range of test kits include a selection of kits for detection of antibiotics and other residues in milk as well as kits for lactose testing and a range of controls, readers and incubators to facilitate use of the test kits. Please contact your local Chr. Hansen sales representative for details on the related products.

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Technical Data

Table 1 presents detection sensitivities of the test system in ppb (µg/kg) for selected antimicrobials in bovine milk, including indications of compliance with EEC Regulation 37/2010 on Maximum Residue Limits (MRLs).

Substance	MilkSafe™ Fast 3BTC		MRL (EEC Regulation 37/2010)
	Sensitivity*	Interpretation	
Penicillin G	2	●	4
Ampicillin	≤4	●	4
Amoxicillin	3	●	4
Oxacillin	9	●	30
Cloxacillin	6	●	30
Dicloxacillin	≤6	●	30
Nafcillin	25	●	30
Ceftiofur	20	●	100
Desfuroylceftiofur	35	●	100
Cefquinome	16	●	20
Cefazolin	125	○	50
Cephapirin	≤16	●	60
Desacetylcephapirin	40	●	60
Cefacetrile	50	●	125
Cefoperazone	6	●	50
Cefalexin	35	●	100
Cefalonium	2	●	20
Tetracycline	80	●	100
Oxytetracycline	35	●	100
Chlortetracycline	80	●	100
Doxycycline	60	●	100

Detection limits in ppb (µg/kg).

*Level of detection validated by ILVO 2022.

● Detected at or below MRL; ○ Detected, but above MRL

Technical support

Chr. Hansen's Application and Product Development Laboratories and personnel are available if you need further information.

Legislation

The Maximum Residue Limits (MRL) presented in table 1 are based on the European Regulation No 37/2010 on pharmacologically active substances and their classification regarding maximum residue limits in foodstuffs of animal origin. Please be aware that the limits may differ across countries. National legislation should always be consulted.

Manufacturer

Manufactured for Chr. Hansen A/S. MilkSafe™ is a trademark of Chr. Hansen A/S.

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