

DAIRY TESTING



PerkinElmer[®]
For the Better

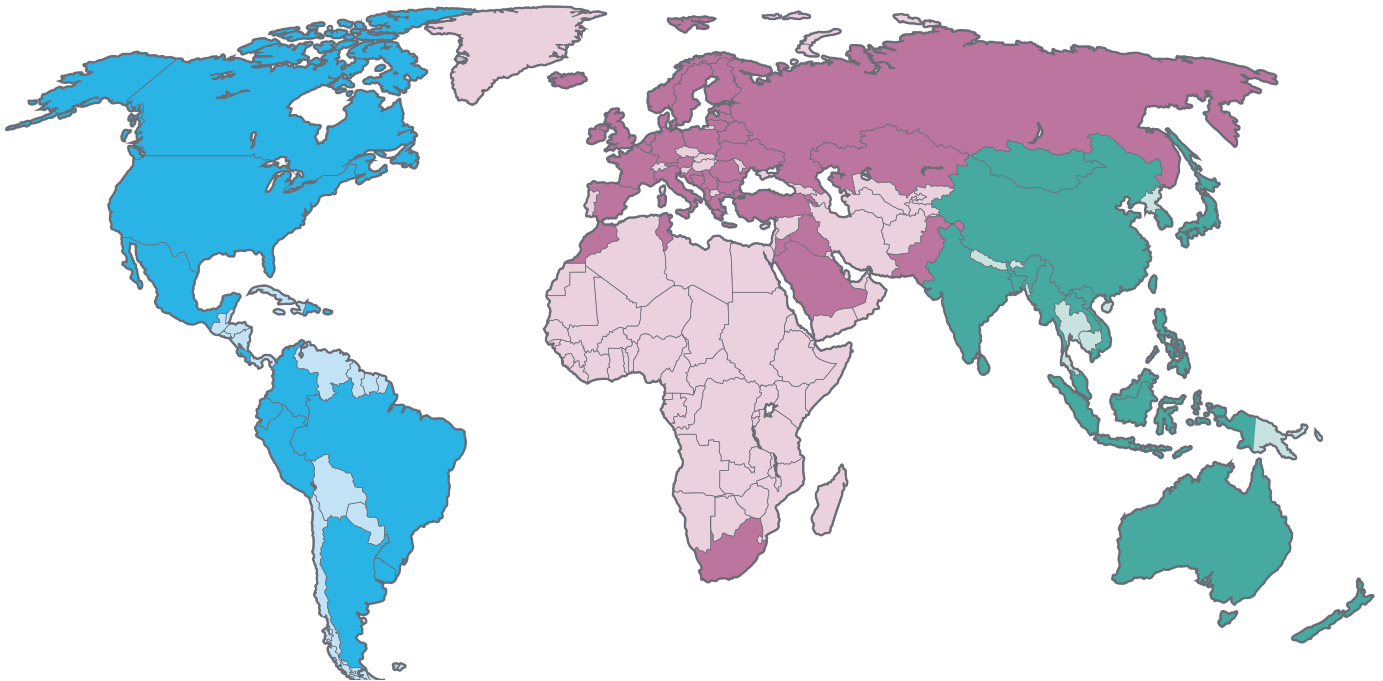


PerkinElmer's AuroFlow™ Strip Tests detect the most commonly used antibiotics found in dairy cow's milk. These tests are fast and easy-to-use in a laboratory or in the field and do not require any additional equipment. The AuroFlow™ Strip Tests are manufactured to test for European Union and CODEX maximum residue limits (MRL).

The AuroFlow™ PR1ME™ Strip Tests are the newest products released by PerkinElmer, in which a mixing step has been eliminated from the test procedure. You can now add milk directly to a sample tube, then insert the test strip immediately for results within minutes.

PerkinElmer also offers products for the detection of a multitude of drug residues, pasteurization verification, and Aflatoxin M₁.

DISTRIBUTORS CAN BE FOUND ALL OVER THE WORLD



Contact Bioo.Sales@PerkinElmer.com to find out how you can purchase products in your territory.

New AuroFlow™ PR1ME™ Beta-lactam and BT Combo Kits

The latest technology used in the AuroFlow™ PR1ME™ products removes the upfront mixing step, enabling the user to go from sample to results in less than 10 minutes with no work in between. The new PR1ME™ products have the capability of detecting 17 beta-lactams (including select metabolites) and 3 tetracyclines below EU MRL requirements. The faster, simplified protocol can be seen on the right.

CATALOG #	PRODUCT	QTY
FOOD-1133-02	AuroFlow™ PR1ME™ Beta-lactam MRL Assay	100 strips
FOOD-1134-02	AuroFlow™ PR1ME™ BT Combo MRL Assay	100 strips
FOOD-6006-01	QuickSTAR™ Horizon™ Strip Reader	1 each
FOOD-6005	AuroBLOCK™ Incubator	1 each

AUROFLOW™ PR1ME™ STRIP TEST PROCEDURE

01



Transfer 200 µL of raw milk to an empty sample tube in the AuroBLOCK™.

Place test strip into sample tube.



02

03



Incubate strip in the AuroBLOCK™.

Remove strip & visually interpret result using diagram or QuickSTAR™ reader.

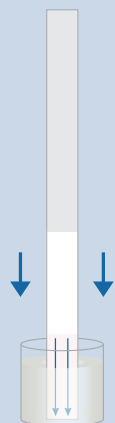


04



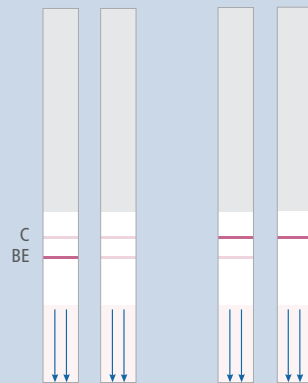
BETA-LACTAM

ORIENTATION



Negative

Positive



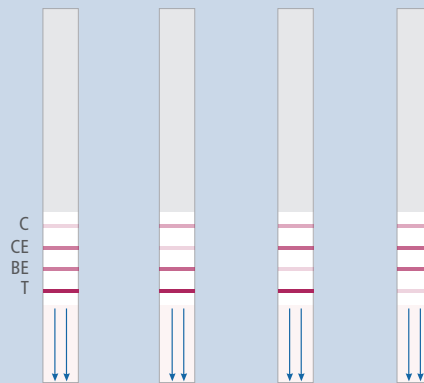
BT COMBO

Negative

Ceftiofur
Positive

Beta-lactam
Positive

Tetracycline
Positive



C = Control
CE = Ceftiofur
BE = Beta-lactam
T = Tetracycline

AuroFlow™ PR1ME™ Beta-lactam MRL Assay



- Rapid 3 minute, one-step method
- Detects 14 beta-lactams below EU MRL requirements

BETA-LACTAM ANTIBIOTICS			
PENICILLINS		CEPHALOSPORINS	
Antibiotic (MRL)	Detection Limit (ppb)	Antibiotic (MRL)	Detection Limit (ppb)
Penicillin G (4)	2-3	Ceftiofur (100)	85-95
Ampicillin (4)	3-4	Cephapirin (60)	4-8
Amoxicillin (4)	3-4	Desacetyl cephalirin (60)	20-30
Cloxacillin (30)	5-8	Cefazolin (50)	40-60
Oxacillin (30)	4-8	Cefoperazone (50)	4-6
Dicloxacillin (30)	4-8	Cephquinome (20)	8-10
Nafcillin (30)	10-15	Cephalonium (20)	2-4
		Cefacetrile (125)	25-35

AuroFlow™ PR1ME™ BT Combo MRL Assay

- Rapid 7 minute, one-step method
- Detects 17 beta-lactams (including select metabolites) and 3 tetracyclines below EU MRL requirements

BETA-LACTAM ANTIBIOTICS			
PENICILLINS		CEPHALOSPORINS	
Antibiotic (MRL)	Detection Limit (ppb)	Antibiotic (MRL)	Detection Limit (ppb)
Penicillin G (4)	1-2	Ceftiofur (100)*	10-30
Penethamate (4)	1-2	Desfuroylceftiofur (100)*	20-40
Ampicillin (4)	2-4	Cephapirin (60)*	4-7
Amoxicillin (4)	3-4	Desactyl cephalirin (60)*	12-24
Cloxacillin (30)	2-4	Cefazolin (50)	40-60
Oxacillin (30)	2-4	Cefoperazone (50)	3-5
Dicloxacillin (30)	1.5-3	Cephquinome (20)	8-12
Nafcillin (30)	4-8	Cephalonium (20)	1-2
		Cefacetrile (125)	20-30

* MRL expressed as sum of parent and metabolite.

TETRACYCLINE ANTIBIOTICS	
Antibiotic (MRL)	Detection Limit (ppb)
Tetracycline (100)	15-25
Chlortetracycline (100)	40-70
Oxytetracycline (100)	40-70
Doxycycline (NR)	35-55



AuroBLOCK™ Incubator

The AuroBLOCK™ Incubator is used to ensure all AuroFlow™ PR1ME™ kits receive a constant incubation temperature. A fixed temperature combined with optimized tubes from PerkinElmer enhances the flow of sample along the strip tests, allowing for proper visual interpretation. Each incubator arrives ready-to-use for all AuroFlow™ PR1ME™ kits with no programming needed, providing a user-friendly experience.



QuickSTAR™ Horizon™ Strip Reader

The QuickSTAR™ Horizon™ Strip Test Reader is a patented ruggedized handheld lateral flow testing system that provides rapid quantitative assay results and increases testing throughput and efficiency. The unit features a rechargeable lithium battery, a touchscreen menu driven interface, and provides test results in seconds. The unit is compatible with a wide array of pre-programmed test types and is software upgradeable to accommodate additional kits.

Easy-to-Use Strip Tests for the Rapid Screening of Antibiotic Residues in Milk

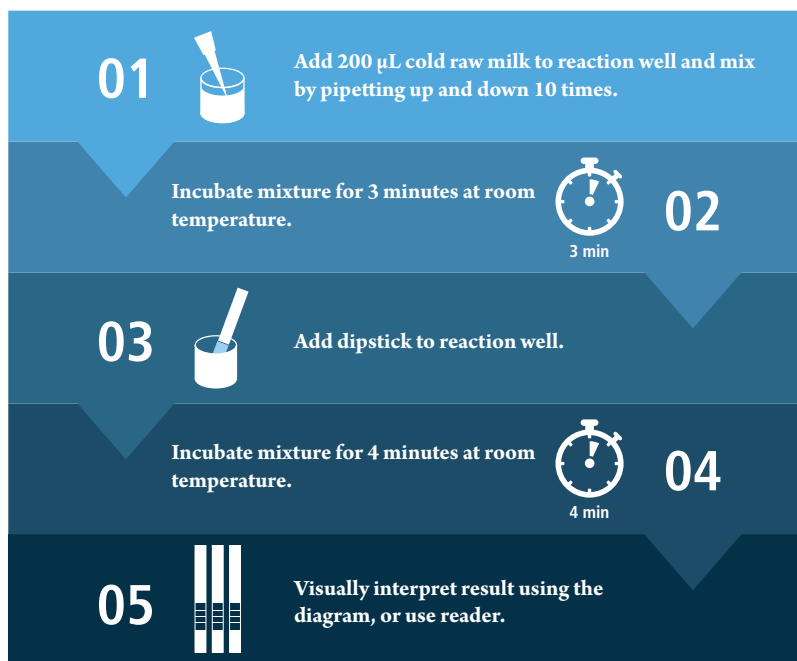
The AuroFlow™ lateral flow test strips are designed for the detection of a broad range of antibiotics in raw, commingled cow's milk. These rapid tests detect 14 beta-lactam antibiotics, major tetracyclines, and 11 major sulfonamides in milk at or below EU and CODEX Maximum Residue Limits (MRL). The AuroFlow™ Combo kits allow simultaneous detection of different classes of antibiotic residues. Validation reports are available upon request showing the efficacy of the tests in both room temperature and cold milk. The fast, simplified protocol can be seen below.



- Easy-to-use strip test with no required heating step or incubator
- Works with room temperature and cold milk
- Results in only 7 minutes
- Results easy to interpret visually or by use of QuickSTAR™ Horizon™ Strip Reader

CATALOG #	PRODUCT	QTY
FOOD-1067-01	AuroFlow™ Beta-Lactam Strip Test Kit	96 strips
FOOD-1087-01	AuroFlow™ BT Combo Strip Test Kit	96 strips
FOOD-1116-01	AuroFlow™ BTS Combo Strip Test Kit	96 strips

AUROFLOW™ STRIP TEST PROCEDURE



BETA-LACTAM ANTIBIOTICS			
Substance (MRL)	Detection Range (ppb)		
	1067-01	1087-01	1116-01
Penicillin G (4)	2-3	2-3	1-2
Ampicillin (4)	3-4	3-4	3-4
Amoxicillin (4)	3-4	3-4	3-4
Oxacillin (30)	4-8	4-8	2-5
Cloxacillin (30)	4-8	4-8	2-5
Dicloxacillin (30)	5-8	5-8	10-18
Nafcillin (30)	15-30	15-30	8-11
Cephquinome (20)	10-20	10-20	3-7
Ceftiofur (100)	75-100	75-100	36-75
Cefazolin (50)	35-50	35-50	20-45
Cephapirin (60)	6-15	6-15	5-8
Cephalonium (20)	4-8	4-8	4-10
Cefaperazone (50)	5-20	5-20	9-18
Cefacetriple (125)	30-50	30-50	21-28

TETRACYCLINE ANTIBIOTICS			
Substance (MRL)	Detection Range (ppb)		
	1067-01	1087-01	1116-01
Tetracycline (100)		50-100	50-100
Oxytetracycline (100)		50-70	21-32
Chlorotetracycline (100)		15-50	15-50
Doxycycline (0)		5-20	5-20

SULFONAMIDE ANTIBIOTICS			
Substance (MRL)	Detection Range (ppb)		
	1067-01	1087-01	1116-01
Sulfamethazine (100)			23-90
Sulfamethoxazole (100)			1-2
Sulfadiazine (100)			10-20
Sulfathiazole (100)			0.5-1
Sulfadimethoxine (100)			1-8
Sulfaquinoxaline (100)			18-32
Sulfapyridine (100)			5-10
Sulfamethoxypyridazine (100)			3-6
Sulfamerazine (100)			13-25
Sulfachloropyridazine (100)			0.5-2.5
Sulfamonomethoxine (100)			1-6

Test for Aflatoxin M₁ Residues in Milk and Yogurt

- Sample extraction protocols for both milk and yogurt
- Milk protocol does not require sample prep
- High recovery rates
- Ready to use standards



CATALOG #	PRODUCT	QTY
FOOD-1060-05	MaxSignal® Aflatoxin M ₁ ELISA Kit	96 tests

Rapid Assay for Pasteurization Confirmation of Milk, Cheese, and Other Dairy Products

- Rapid and simple method
- Minimal sample preparation
- Highly accurate and reproducible
- Visual results; no reader necessary



CATALOG #	PRODUCT	QTY
FOOD-1041	MaxSignal® Dairy Product Pasteurization Verification Kit	30 samples

OTHER DAIRY TEST KITS

ANTIBIOTIC

MaxSignal® Amoxicillin ELISA Kit
 MaxSignal® Beta-Lactam ELISA Kit
 MaxSignal® Chloramphenicol ELISA Kit
 MaxSignal® Chlortetracycline ELISA Kit
 MaxSignal® Ciprofloxacin ELISA Kit
 MaxSignal® Doxycycline ELISA Kit
 MaxSignal® Fluoroquinolone ELISA Kit
 MaxSignal® Lincomycin ELISA Kit
 MaxSignal® Oxytetracycline ELISA Kit
 MaxSignal® Sarafloxacin ELISA Kit
 MaxSignal® Sulfamethazine ELISA Kit
 MaxSignal® Sulfamethoxazole ELISA Kit
 MaxSignal® Sulfonamide ELISA Kit
 MaxSignal® Tetracycline ELISA Kit

OTHER RESIDUES & TESTS

MaxSignal® Diethylstilbestrol ELISA Kit
 MaxSignal® Melamine ELISA Kit



MaxSignal® 4302 Microplate Reader

The MaxSignal® 4302 Microplate Reader is a versatile microplate spectrophotometer for 96-well plates providing all the functionality needed for numerous laboratory applications while offering great performance and value.

The MaxSignal® 4302 Microplate Reader is a compact, PC-controlled, multi-purpose instrument designed to read and calculate the results of microplate-based assays. Plates containing microstrips can be read as whole plates or as partial strips. The compact space saving design makes it ideal for stand-alone use.

CATALOG
#FOOD-6003-01



PerkinElmer, Inc.
7050 Burleson Rd
Austin, TX 78744 USA
P: (888) 208-2246 or
(+1) 512-707-8993
www.biooscientific.com



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

Copyright © 2019, PerkinElmer, Inc. All rights reserved. PerkinElmer® is a registered trademark of PerkinElmer, Inc. All other trademarks are the property of their respective owners.
BR50-1000-01 • Rev. C