

# BR-Test<sup>®</sup> AS-Brilliant

## Test Sensitivity or Detection levels

### Introduction

A broad spectrum antibiotic residue test system offers the possibility to verify the presence in milk of a multitude of different antimicrobial substances. Appropriately specified inhibition assays may be used in milk quality payment programs. An indication of the sensitivity of the BR-Test<sup>®</sup> AS-Brilliant has been given in the Specification sheet of this product. However, apart from the specified sensitivities for Penicillin-G and sulphadiazine, a substantial number of other antibiotics, sulphonamides and inhibitory substances can be detected at or close to the levels such as defined by the Maximum Residue Level (MRL). The table shows an overview of the indicative detection levels of BR-Test<sup>®</sup> AS-Brilliant for different antibiotic residues.

### Table

BR-Test<sup>®</sup> AS-Brilliant indicative data on detection levels in µg/Kg in commingled bovine raw milk.

Drugs	Sensitivity at control time
	µg/Kg
<b>β-lactams</b>	
Penicillin-G	3 - 4
Ampicillin	3 - 4
Amoxicillin	3 - 4
Cefalexin	25 - 50
Cefquinom	100
<b>Tetracyclines</b>	
Oxytetracycline	100 - 400
Chlortetracycline	100 - 300
<b>Macrolides</b>	
Erythromycin	100
Spiramycin	400 - 1000
Tylomycin	30 - 40
<b>Aminoblycosides</b>	
Gentamycin	200 - 400
Neomycin	400 - 800
<b>Sulphonamides</b>	
Sulphadiazine	25 - 100
Sulphamethazine	50 - 200

The data indicated in the table are based upon readings judged as being yellow/blue to blue and are to be regarded as an indication. It is recommended to always confirm positive test results. Variations in incubation times and temperatures, operators and storage conditions may have an influence on the reading result found. Data in the table may be used for validation purposes.

### Definitions

- Drugs: Active ingredient of cattle medication such as antibiotics and sulphonamides.
- Spectrum: An indication of the number of different active ingredients that can be detected by a given method at or below the required detection level.
- Detection level: The lowest concentration at which a drug is still detected by the test.
- Control time: Time at which the test agar containing the negative a control sample has just changed to yellow. At this time the best sensitivity for the test system is obtained.

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