

# Premi<sup>®</sup>Test

## How to determine more specific the antibiotic after positive results

### Reading the test results of the Premi<sup>®</sup>Test

- When the negative control changes color from purple to yellow the results can be read.
- Read the results from the bottom 2/3 part of the ampoule.
- A clear color change purple to yellow indicates that the antimicrobial compounds are below the Premi<sup>®</sup>Test detection limits.
- A purple color indicates the presence of antimicrobial compounds at or above the detection limits of the Premi<sup>®</sup>Test.

### How to determine more specific the antibiotic after positive results:

- **To confirm the presents of beta-lactam antibiotics:**

Mix one ml of the sample with 0.1 ml of a solution of 50 International Units of penicillinase type 1 (ex *Bacillus cereus*) per ml water (e.g. penase SR0129 from Oxoid). Leave the mixture for approx. 30 minutes at room temperature. Test 0.1 ml of the mixture with the Premi<sup>®</sup>Test. If the Premi<sup>®</sup>Test gives a yellow color, it confirms the presence of beta-lactam antibiotic (penicillin, ampicillin, cloxacillin, cephalirin, cefuroxime etc.) in the sample.

- **To confirm the presents of sulphonamides:**

Make an aqueous solution containing 1 mg/L of the sodium salt of p-amino benzoic acid (PABA). Mix one ml of the sample with 0.1 ml of this PABA solution. Leave the mixture for approx. 30 minutes at room temperature. Do the Premi<sup>®</sup>Test with 0,1 ml of a mixture of 1 ml sample and 0,1 ml of the PABA solution. If the Premi<sup>®</sup>Test gives a yellow color, it confirms the presence of sulphonamide, a sulphone or an antifolate in the sample.

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