

Rapid Gram Screening Kit

Intended Use

Rapid method that aids in distinguishing Gram-negative from Gram-positive bacteria.

Summary and Principle

The Gram stain reaction is not always truly indicative of the organism's true cell wall structure. Poorly controlled decolorizing can obviously be a source of misleading results, but even with adequate technique some organisms are problematic. For example, some strains of microorganisms consistently stain Gram-negative even though they have a Gram-positive type cell wall.

Components

Gram Screening Solution, Glass Slide, Mixing Ladder Sticks (4 X 25)

Directions

1. Place a very small drop of Gram screening solution on a clean glass slide provided in kit.
2. Break one stick from the mixing ladder sticks (4X25).
3. Using this mixing stick pick a visible amount of fresh bacteria from a colony(s) on an agar plate incubated for 18-24 hours.
4. Stir in circular motion the bacteria into Gram screening solution.
5. Mix continuously in a 1 cm area on the glass slide for a maximum of 30 seconds.
6. By slowly lifting the mixing stick observe for the formation of a string.
7. Frequently raise the mixing stick 1 cm off the slide surface to test if the mixture is becoming viscous and has the ability to "string out".

Interpretation of Results

Gram-negative: Mixture becomes viscous and "strings out".

Gram-positive: Even after 1 minute the mixture is not viscous and does not string out.

Precautions / Limitations

1. False positive and false negative results may occur.
2. False positive results can occur from too heavy an inoculum (the solution will appear to gel, but not string), or inoculation with mucoid colonies.
3. False negative results can occur in the test by using too little inoculums or too much solution.
4. This test has the advantage of simplicity, and it can be performed on older cultures.
5. This test may be problematic for some anaerobes.

Storage and Stability

Store the product at 15°C -25°C. Use before expiry date on label.

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat. No.	Product Description	Pack Size
203180350100	Biochemical Identification Kit	1 Kit (100 Test)

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
