

## Gruft Mycobacterium Supplement

### Intended Use

An enrichment and antibiotic supplement recommended for the selective cultivation of Mycobacteria.

### Summary

Gruft modified Lowenstein Jensen medium by adding two antimicrobials Penicillin and Nalidixic acid for selective isolation of Mycobacteria. He also found that addition of ribonucleic acid (RNA) increased the percentage of tubercle bacilli recovered from clinical specimens compared to recovery on the standard Lowenstein Jensen Medium. Gruft Mycobacterial Supplement is used with Lowenstein Jensen Medium for selective isolation of mycobacteria.

### Principle

The incorporation of penicillin and nalidixic acid suppresses the growth of microorganisms without interfering with the growth of *Brucella* species. RNA in the supplement acts as a stimulant and helps to increase the isolation rate of Mycobacteria.

### Reagents / Contents

Each vial, sufficient for 400 mL medium

Nalidixic Acid	14.00 mg
Ribonucleic Acid	20.00 mg
Penicillin	20000 IU

### Storage and Stability

1. Store the Microexpress® Gruft Mycobacterial Supplement kit at 2°C-8°C, away from light.
2. Stability of the Microexpress® Gruft Mycobacterial Supplement is as per the expiry date mentioned on the label.

### Directions

1. Rehydrate the contents of 1 vial aseptically with 2.5 mL sterile 0.2 N sodium hydroxide.
2. Mix well and add 400 mL sterile, molten Lowenstein Jensen Medium, containing whole egg emulsion. Appropriate concentrations of the supplement can be achieved by absorbing 0.05 mL of reconstituted supplement on slants prepared from 8.0 mL L J Medium.

### Interpretation of results

Refer to appropriate references and procedures for results.

### Quality Control

Cultural characteristics observed after an incubation of 2-4 weeks at 35°C-37°C when added to Lowenstein Jensen Medium Base.

#### Organism (ATCC)

*Mycobacterium tuberculosis* (H37Rv strain)

*Staphylococcus aureus* subsp. *aureus* (25923)

#### Growth

Granular, rough, warty, dry, friable colonies

Inhibited

### Remarks

1. Do not use cracked or broken vials.
2. Good laboratory practices and hazard precautions must be observed at all times.

### 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.

## References

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

## Product Presentation:

Cat No.	Product description	Pack Size
204070350005	Media Selective Supplement	5 Vials

## 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.

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