

Mycobacteria (Kirchner) MAST® SELECTATAB

MS24 Series

Intended use

For use in Kirchner Broth for the selective isolation of Mycobacteria species.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents

25 (small) or 10 (large) MAST® SELECTATAB.
See pack label.

Formulation

Material:	Concentration in medium:
Polymyxin B	200,000 unit/L
Ticarcillin	100 mg/L
Amphotericin B	10 mg/L
Trimethoprim	10 mg/L

Storage and shelf life

Store unopened at 2 to 8°C until the expiry date shown on the pack label. Once opened, store MAST® SELECTATAB in capped, original packaging at 2 to 8°C until the expiry date shown on the pack label.

Precautions

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® culture media, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents, and additives such as blood.

Procedure

1. Sterilise the bulk liquid medium, Kirchner Medium Base, according to directions and cool to room temperature.
2. Sterilise and label the final test tubes or containers using the self adhesive labels provided.
3. Using sterile forceps, add one MAST® SELECTATAB to the volume of medium stated on the pack and bottle labels. Allow to stand for several minutes until the Selectatab has broken up.
4. After the MAST® SELECTATAB has broken up swirl 3 to 4 times and invert to complete dispersal. An alternative method is to first dissolve the MAST® SELECTATAB in 3 to 5 mL of sterile water and add this to the appropriate volume of medium.
5. Mix well, pour into the final, sterile containers.

6. To obtain optimum isolation, the Selective Kirchner medium should be used as soon as possible after preparation.
7. Pus, swabs and CSF specimens should be inoculated without decontamination; all other specimens should be decontaminated before inoculation. In all cases cultures should be incubated for a minimum of 8 to 9 weeks at a temperature of 37°C.

Interpretation of results

The use of a selective Kirchner medium is recommended in conjunction with two slopes of Löwenstein-Jensen medium, one with and one without added pyruvate. Although results produced with the egg media are inferior to those with Kirchner medium alone, they should be included as growth suitable for identification and sensitivity testing is obtained more rapidly on solid media. In addition several species of Mycobacteria, such as *M. intracellulare* and *M. ulcerans*, may be inhibited by the antibiotics present in selective media.

Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result
<i>Escherichia coli</i> ATCC® 10536	No growth
<i>Mycobacterium fortuitum</i> ATCC® 6841	Growth

References

Bibliography available on request.