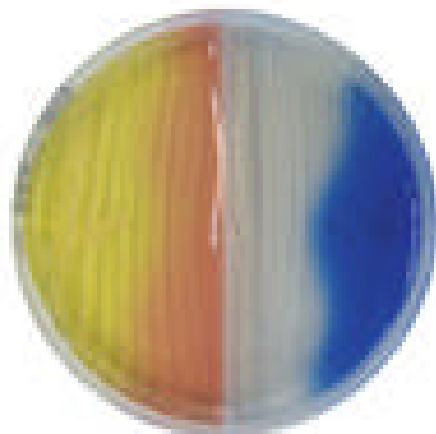


MICROGEN BIOPRODUCTS LTD



METISTAPH 2 MEDIUM

MEDIUM FOR THE SELECTION AND PRESUMPTIVE IDENTIFICATION OF METHICILLIN RESISTANT *STAPHYLOCOCCUS AUREUS*

THE METISTAPH 2 MEDIUM IS RECOMMENDED FOR THE ISOLATION AND PRESUMPTIVE IDENTIFICATION OF METHICILLIN RESISTANT *STAPHYLOCOCCUS AUREUS* (MRSA) FROM BIOLOGICAL SAMPLES, CAUSING NOSOCOMIAL DISEASES.

Protecting Food and Health

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The METISTAPH 2 medium is recommended for the isolation and presumptive identification of Methicillin Resistant *Staphylococcus aureus* (MRSA) from biological samples.

The medium is composed of 2 selective media that detect resistance to Cephalosporin and Quinolone, themselves commonly associated to the resistance to Methicillin in MRSA. Detecting these two resistances helps to increase the accuracy of MRSA screening. The Cephalosporin used in this medium is Cefoxitin which triggers the induction of the *mecA* gene. This gene codes for the Penicillin Binding Protein (PBP) that mediate in the MRSA mechanism of resistance. The use of Cefoxitin is used in substitution to Oxacillin in order to detect heterogeneous strains.

The two agars contain Colistin and Amphotericin B to inhibit interfering bacterial and fungal flora. Acid production, due to mannitol fermentation by *Staphylococcus aureus*, modifies the medium pH causing a change of colour of the pH indicators to:

- Blue for the half bi-plate with Cefoxitin
- Yellow for the half bi-plate with Ofloxacin

Procedure:

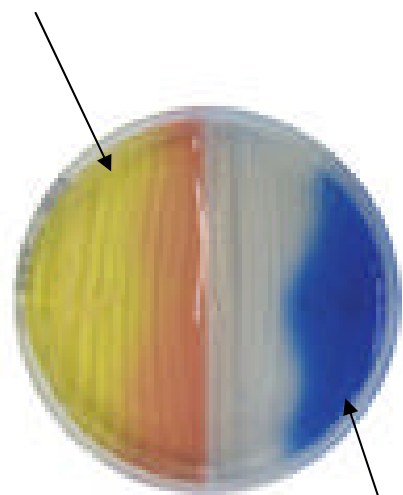
Samples are taken first when the patient presents, and regularly throughout their stay in hospital. Sampling is done with a sterile swap before any cleaning or use of antiseptics. Suitable areas for sampling are: the nose, skin cuts, ulcerations or the perineum.

Swab the inoculum onto the two half plates. Incubate at 37°C for 24-48 hours.

Results:

The MRSA will grow in 24-48 hours as blue colonies on the half Cefoxitin bi-plate and yellow colonies surrounded by a yellow halo on the bi-plate with Ofloxacin, due to the fermentation of mannitol.

Resistance to Quinolone



Resistance to Ceflosporin

Product Code: AEB 525750N
Storage: 2-8°C
Unit of issue: Pack of 20 Bi-plates