

## TM 2207 - M-YEAST AND MOULD BROTH

### INTENDED USE

For counting yeasts and moulds in samples by membrane filter technique.

### PRODUCT SUMMARY AND EXPLANATION

M-Yeast and Mould Broth is used for counting yeasts and moulds in samples by membrane filter method. It can also be used for cultivating other aciduric microorganisms in sugars.

### COMPOSITION

| Ingredients         | Gms / Ltr |
|---------------------|-----------|
| Biopeptone          | 10.000    |
| Yeast extract       | 9.000     |
| Cerelose            | 50.000    |
| Magnesium sulphate  | 2.100     |
| Potassium phosphate | 2.000     |
| Diastase            | 0.050     |
| Thiamine            | 0.050     |

### PRINCIPLE

Cerelose; a refined dextrose which is easily fermented by the moulds is included in the medium along with the amyolytic enzyme diastase. Biopeptone and yeast extract provide sufficient nitrogenous nutrients for the growth of the moulds. Thiamine (vitamin B1) functions in intermediate carbohydrate metabolism in the coenzyme form. Magnesium sulphate supplies the ions for fungal growth. The acidic pH of the medium favours the growth of moulds, yeasts and aciduric microorganisms. The medium is used to saturate sterile absorbent cotton pads. Membrane filters through which sample has been passed is aseptically placed on these saturated cotton pads.

### INSTRUCTION FOR USE

- Dissolve 7.32 grams in 100 ml distilled water.
- Mix thoroughly.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and dispense as desired.

### QUALITY CONTROL SPECIFICATIONS

|   |   |
|---|---|
| <b>Appearance of Powder</b>                           | : Cream to yellow homogeneous free flowing powder                           |
| <b>Appearance of prepared medium<br/>pH (at 25°C)</b> | : Light yellow coloured clear solution without any precipitate<br>: 4.6±0.2 |

### INTERPRETATION

Cultural characteristics observed after an incubation.

| Microorganism                   | ATCC  | Inoculum (CFU/ml) | Growth    | Recovery | Incubation Temperature | Incubation Period |
|---------------------------------|-------|-------------------|-----------|----------|------------------------|-------------------|
| <i>Aspergillus brasiliensis</i> | 16404 | 50-100            | luxuriant | >=70 %   | 25-30°C                | 48-72 Hours       |



|                                 |       |        |           |        |         |             |
|---------------------------------|-------|--------|-----------|--------|---------|-------------|
| <i>Candida albicans</i>         | 10231 | 50-100 | luxuriant | >=70 % | 25-30°C | 48-72 Hours |
| <i>Saccharomyces cerevisiae</i> | 9763  | 50-100 | luxuriant | >=70 % | 25-30°C | 48-72 Hours |

**PACKAGING:**

In pack size of 500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

1. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.

|  |  |  |   |  |   |
|--|--|--|---|--|---|
| <br>GMP<br>Good Manufacturing Practices Certified | <br>IVD<br>For In Vitro Diagnostic Use  | <br>QTY.<br>Quantity    | <br>LOT/<br>B. NO.<br>Lot / Batch Number | <br>REF<br>Catalogue Number       | <br>Manufacturer |
| <br>Temperature Unit                              | <br>EC REP<br>MediMet GmbH<br>Barkstrasse 10<br>48163 Münster, Germany<br>Authorized Representative | <br>European Conformity | <br>QR Code                              | <br>Consults Instructions for Use | <br>Best Before  |

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

\*For Lab Use Only  
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