

**M-BCG YEAST AND MOLD BROTH****TM 1231**

for detection of fungi in routine examination of beverages by membrane filter technique

Composition

| Ingredients | Gms/Ltr. |
|------------------------|----------|
| Biopeptone | 10.000 |
| Yeast extract | 9.000 |
| Dextrose | 50.000 |
| Magnesium sulphate | 2.100 |
| Potassium phosphate | 2.000 |
| Diastase | 0.050 |
| Thiamine hydrochloride | 0.050 |
| Bromocresol green | 0.026 |

* Dehydrated powder, store in a dry place, in tightly-sealed containers at 24°C and protect from direct Sunlight.

Instructions for Use

Dissolve 73.20 gms in 1000ml of distilled water. Gently heat if necessary with gentle swirling and dissolve the medium completely. Sterilize by autoclaving at 12 - 15 psi (118 - 121°C) for 10 minutes.

Appearance: Green coloured slightly opalescent, may contain slight precipitate

PH (at 25°C): 4.6 ± 0.2

Principle

M-BCG YEAST AND MOLD BROTH is used for detection of fungi in routine examination of beverages by membrane filter technique. It is a modification of M-Yeast and Mould Broth used for detection of fungi in sugar and other materials. Biopeptone and yeast extract provide nitrogenous compounds and vitamin B complex. Dextrose acts as the energy source. Thiamine is also a B vitamin in the medium. Diastase is a mixture of amylolytic enzymes. Bromo cresol green is the pH indicator which is green at acidic pH (pH 4.0) while blue at pH 5.6. The low pH inhibits bacterial growth. Potassium phosphate helps in maintaining buffering action in the medium. The membrane filter pad is saturated with 2.0 to 2.5 ml broth. Place the membrane filter used for filtration of test sample on the saturated pad and incubate at 30 -35°C for 48 hours.

Interpretation

Cultural characteristics observed after incubation at 25 - 30°C for 48 - 72 hours.



PRODUCT DATA SHEET

| Microorganisms | ATCC | Inoculum (CFU) | Growth |
|---------------------------------|-------|-----------------|----------------|
| <i>Candida albicans</i> | 10231 | 10 ³ | Good-luxuriant |
| <i>Saccharomyces cerevisiae</i> | 9763 | 10 ³ | Good-luxuriant |
| <i>Aspergillus brasiliensis</i> | 16404 | 10 ³ | Good-luxuriant |

References

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