

Technical Information

M-BCG Yeast and Mould Broth

Product Code: DM 2130

Application: - M-BCG Yeast and Mould Broth is used for the detection of fungi in routine analysis of beverages using membrane filter technique.

Composition**

Ingredients	Gms / Litre
Yeast extract	9.000
Dextrose	50.000
Biopeptone	10.000
Magnesium sulphate	2.100
Potassium phosphate	2.000
Diastase	0.050
Thiamine hydrochloride	0.050
Bromocresol green	0.026
Final pH (at 25°C)	4.6±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

M-BCG (Bromo Cresol Green) Yeast and Mould Broth is used in routine analysis of beverages for detecting fungi using a membrane filter technique ⁽¹⁾. It is a modification of M-Yeast and Mould Broth used for detection of fungi in sugar and other materials.

The medium is highly nutritious for the growth of yeasts and moulds. Bio peptone and yeast extract provide nitrogenous compounds and vitamin B complex. Thiamine is also a B vitamin in the medium. Dextrose acts as the energy source. 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. Potassium phosphate helps in maintaining buffering action in the medium. The low pH inhibits bacterial growth.

In test procedure the membrane filter pad is saturated with 2.0 to 2.5 ml broth. The membrane filter used for filtration of test sample is placed on the saturated pad and is incubated at 30 -35°C for 48 hours.

Methodology

Suspend 7.32 grams of powder media in 100 ml distilled water. Shake well and heat if necessary to dissolve the medium completely.

Dispense and sterilize by autoclaving at 118-121°C for 10 minutes.

Quality Control

Physical Appearance

Cream to light green homogeneous free flowing powder

Colour and Clarity of prepared medium

Green coloured slightly opalescent solutions may contain a slight precipitate.

Reaction

Reaction of 7.32% w/v aqueous solution at 25°C. pH : 4.6±0.2

pH Range 4.40-4.80

Cultural Response/Characteristics

DM 2130: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.

Organism	Inoculum (CFU)	Growth
* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	good-luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant

Key : * - Formerly known as *Aspergillus niger*

Storage and Shelf Life

Dried media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

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

Disclaimer :

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