M-Green Yeast and Fungi Broth (NCM0134)

Intended Use
M-Green Yeast and Fungi Broth is used for the detection of fungi in beverages in a laboratory setting. M-Green Yeast and Fungi Broth is not intended for use in the diagnosis of disease or other conditions in humans.

Description
M-Green Yeast and Fungi Broth is a relatively more complex formula compared to other media used for isolation of fungi and yeast. This formulation is rich in nutrients which allows for excellent fungal growth. Bacterial growth is inhibited by an acid pH.

Fungi have been found in potable water and on the inner surface of distribution system pipes. They can survive water treatment or they enter the system after treatment and remain viable.

Typical Formulation

Enzymatic Digest of Casein	5.0 g/L
Enzymatic Digest of Animal Tissue	5.0 g/L
Yeast Extract	9.0 g/L
Dextrose	50.0 g/L
Magnesium Sulfate	2.1 g/L
Potassium Phosphate	2.0 g/L
Diastase	0.05 g/L
Thiamine	0.05 g/L
Bromocresol Green	0.026 g/L

Final pH: 4.6 ± 0.2 at 25°C
Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution
Refer to SDS

Preparation
1. Dissolve 73 g of the medium in one liter of purified water.
2. Mix thoroughly.
3. Autoclave at 121°C for 10 minutes.

Quality Control Specifications
Dehydrated Appearance: Powder is homogeneous, free flowing, and beige to green.

Prepared Appearance: Prepared medium is clear, dark green, with no to moderate precipitate.

Expected Cultural Response: Cultural response in M-Green Yeast and Fungi Broth incubated aerobically at 25 - 30°C and examined for growth after 2 - 7 days.

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Microorganism	Approx. Inoculum (CFU)	Expected Results
Aspergillus brasiliensis ATCC® 16404	Point Inoculation	Growth
Candida albicans ATCC® 10231	10 - 300	Growth
Penicillium roquefortii ATCC® 10110	Point Inoculation	Growth
Saccharomyces cerevisiae ATCC® 9763	10 - 300	Growth
Trichophyton mentagrophytes ATCC® 9533	Point Inoculation	Growth

The organisms listed are the minimum that should be used for quality control testing.

Test Procedure

1. Saturate a sterile membrane filter pad in a sterile petri dish with 2.0 to 2.5 mL of m-Green Yeast and Fungi Broth.
2. Roll the membrane filter from the test sample onto the surface of the moistened pad. Avoid trapping air bubbles between the filter and the pad.
3. Incubate plates for up to 7 days at 25 - 30°C in an aerobic atmosphere.

Results

Count colonies appearing on the filter surface after incubation. Mold colonies generally appear green and filamentous, yeast colonies are green and opaque. Refer to appropriate references for complete information on isolation and identification of yeasts and molds.

Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitation of the Procedure

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage

Store dehydrated culture media at 2-8°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

1. Eaton, A. D., L. S. Clesceri, and A. E. Greenberg (eds.). 2017. Standard methods for the examination of water and wastewater, 23rd ed. American Public Health Association, Washington, D.C.

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