Technical Information

AATCC Mineral Salts Agar

Product Code: DM 1232

Application: AATCC Mineral Salts Agar is recommended for evaluation of fungicides used on textiles and to study the resistance of textiles to mildew and rot.

Composition**

Ingredients	Gms / Litre
Ammonium nitrate	3.000
Monopotassium phosphate	2.500
Dipotassium phosphate	2.000
Magnesium sulphate	0.200
Ferrous sulphate	0.100
Agar	20.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

AATCC Mineral Salts Agar is used as per the procedure described by American Association of Textile Chemists and Colourists [(1)]. These procedures are used for testing initial mildew resistance of textiles. Perseverance of mildew resistance,) and Fungicidal potency of textile fungicides testable, Standard Minimum protective concentration, peccnanence indices, including resistance to leaching, volatalization and weathering. Cultures used are Chaetomium globosum ATCC 16790, * Asp ergillus brasiliensis ATCC 16404 (2). Ammonium nitrate acts as a nitrogen source. Dipotassium and monopotassium phosphate provides buffering to the medium. Magnesium sulphate and ferrous sulphate are sources of ions that simulate metabolism.

Methodology

Suspend 27.8 grams of powder media in 1000 ml distilled water. Add 7.5 grams of dextrose if the medium is to be used for testing with *Aspergillus brasiliensis.Shake well and heat to boiling to dissolve the medium completely. Dispense in 7 ml amounts in test tubes or 40 ml amounts in bottles or flasks. Sterilize by autoclaving at 15 lbs pressure (12 1°C) for 15 minutes.

Quality Control

Physical Appearance
Cream to yellow homogeneous free flowing powder

Gelling
Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium
Light amber coloured clear to slightly opalescent gel.

Reaction
Reaction of 2.78% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH Range:- 5.40-5.80

Cultural Response/Characteristics
DM 1232: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours

Organism	Inoculum (CFU)	Growth
*Aspergillus brasiliensis *ATCC 16404*	50-100	good-luxuriant
Chaetomium globosum ATCC 16790	50-100	good-luxuriant

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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. 1 Technical Manual of the American Association of Textile Chemists and Colourists, 1959, Part III, AATCC Test Methods, 82, Lowe ll, Mass
2. Catalogue of Bacteria and Bacteriophages, 1992, 18th Ed., American Type Culture Collection, Rockville, MD

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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