Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Czapek Yeast Extract Agar

Product Code: DM 2335

Application: - Czapek Yeast Extract Agar is recommended for the cultivation and maintenance of **Aspergillus brasiliensis* .

Composition**

Ingredients	Gms / Litre
Sucrose	30.000
Yeast extract	5.000
Dipotassium hydrogen phosphate	1.000
Sodium nitrate	0.300
Potassium chloride	0.050
Magnesium sulphate	0.050
Ferrous sulphate	0.001
Zinc sulphate	0.001
Copper sulphate	0.0005
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Aspergillus brasiliensis is one of the most common species of the genus Aspergillus belongs to the group Ascomycota, and ubiquitously presents in soil. Aspergillus brasiliensis is cultured for the industrial production of many substances like citric acid and gluconic acid.

These substances have been cheked for daily intake by the World Health Organisation. Many enzymes are also produced using Aspergillus brasiliensis. These include glucoamylase and a-galactosidase, and other medicines that claim to prevent flatulence. One of the most important use of Aspergillus brasiliensis in the biotechnology industry is the production of magnetic isotope-containing different type of biological macromolecules for NMR analysis.

Czapek Yeast Extract Agar is recommended for the cultivation and maintenance of Aspergillus brasiliensis [(1)]. This medium supports the abundant growth of almost all saprophytic Aspergilli [(2)]. Sucrose serves as the source of energy. Yeast extract provides essential amino acids, vitamins and other essential nutrients. Sodium nitrate serves as the nitrogen sources. The various salts buffer the medium in addition to supplying essential ions to the growing fungi.

Methodology

Suspend 51.40 grams of powder media in 1000 ml distilled water. Shake well and heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Quality Control

Physical Appearance
Cream to yellow homogeneous free flowing powder

Gelling
Firm,comparable with 1.5% Agar gel

Colour and Clarity of prepared medium
Light yellow coloured, clear to slightly opalescent gel with a slight precipitate forms in Petri plates

Cultural Response/Characteristics
DM 2335: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours

Organism	Growth
*Aspergillus brasiliensis ATCC 16404	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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Atlas R. M., 2004, Handbook of Microbiological Media 3rd Edition, CRC Press.
2. Thom and Raper, 1945, Manual of Aspergilli, 39.

Disclaimer :

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