

Dehydrated Culture Media Bases / Media Supplements

Technical Information

Glucose Yeast Extract Agar

Product Code: DM 1963

Application: - Glucose Yeast Extract Agar is used for enumeration and cultivation of Lactobacilli in pharmaceutical preparations.

Composition**			
Ingredients	Gms / Litre		
Peptic digest of animal tissue	5.000		
Yeast extract	5.000		
Glucose	2.000		
Monopotassium phosphate	0.500		
Dipotassium phosphate	0.500		
Magnesium sulphate	0.300		
odium chloride	0.010		
Aanganese sulphate	0.010		
inc sulphate	0.0016		
Copper sulphate	0.0016		
Cobalt sulphate	0.0016		
Agar	15.000		
**Formula adjusted, standardized to suit perfo	rmance		
parameters			

Principle & Interpretation

Glucose Yeast Extract Agar is prepared as per the to the formula of Evans and Niven ⁽¹⁾ and Rogosa et al ⁽²⁾ The medium is used for

enumeration and cultivation of Lactobacilli in pharmaceutical preparations.

The medium contains a variety of salts like sulphates, phosphates to support the growth of Lactobacilli. Necessary nitrogenous nutrients for Lactobacilli are provided by peptic digest of animal tissue and yeast extract. Glucose is the source of fermentable carbohydrate. The metallic salts are sources of ions essential for the replication of lactic acid bacteria.

Methodology

Suspend 28.32 grams of powder media in 1000 ml distilled water. Shake well & 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 Light yellow to beige homogeneous free flowing powder

Gelling Firm,comparable with 1.5% Agar gel

Colour and Clarity of prepared medium Yellow coloured, clear to slightly opalescent gel forms in Petri plates

Cultural Response/Characteristics DM 1963: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.





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Organism	lnoculum (CFU)	Growth	Recovery
Lactobacillus acidophilus ATCC 4356	50-100	good-luxuriant	>=50%
Lactobacillus bulgaricus ATCC 11842	50-100	good-luxuriant	>=50%
Lactobacillus casei ATCC	50-100	good-luxuriant	>=50%

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

Evans and Niven, 1951, J. Bacteriol., 62:599.

2. Rogosa M., Mitchell J. A. and Wiseman R. F., 1951, J. Bacteriol., 62 :132.

3.Seppo Salminen, Atte von Wright and Arthur Ouweh and, Lactic Acid Bacteria., Microbiological and Functional Aspects, 3rd Ed., Marcel and Dekker. NY. Basel.

Disclaimer:

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