

Bases / Media Supplements

Technical Information

Glucose Yeast Extract Acetate Broth

Product Code: DM 1964

Application: - Glucose Yeast Extract Acetate Broth is recommended for cultivation of Lactobacilli.

Composition**		
Ingredients	Gms / Litre	
Sodium acetate	10.000	
Peptic digest of animal tissue	10.000	
Yeast extract	10.000	
Dextrose	10.000	
Dipotassium phosphate	0.250	
Monopotassium phosphate	0.250	
Magnesium sulphate	0.100	
Ferrous sulphate	0.005	
Manganese sulphate	0.005	
Sodium chloride	0.005	
Final pH (at 25°C)	6.9±0.2	
**Formula adjusted standardized to suit perform	ance narameters	

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Glucose Yeast Extract Acetate Broth is prepared by slight modification of the formula described by Evans and Niven (1) and Rogosa et al (2) and is used for enumerating Lactobacilli in pharmaceutical preparations.

It 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. Sodium acetate inhibits Streptococci, moulds and many other organisms.

Methodology

Suspend 40.61 grams of dehydrated media powder in 1000 ml distilled water. Mix thoroughly & heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Appearance

Cream to yellow coloured homogeneous free flowing powder

Colour and Clarity

Light yellow coloured clear solution without any precipitate.

Reaction

Reaction of 4.06% w/v aqueous solution at 25°C. pH : 6.9±0.2

pH Range 6.70-7.10

Cultural Response

DM 1964: Cultural characteristics observed after an incubation at 35 - 37°C for 24 - 48 hours.





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Cultural Response			
Organism	Growth		
Cultural Response Lactobacillus acidophilus ATCC 4356	luxuriant		
Lactobacillus bulgaricus ATCC 11842	luxuriant		
Lactobacillus casei ATCC 9595	luxuriant		
Lactobacillus leichmannii ATCC 4797	luxuriant		
Lactobacillus plantarum ATCC 8014	luxuriant		

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label. **Prepared Media**: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. Evans and Niven, 1951, J. Bact., 62:599.

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

Disclaimer:

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

• The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate

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