



Technical Data

Glucose Yeast Extract Acetate Broth

M964

Intended Use:

Recommended for cultivation of Lactobacilli

Composition**

Ingredients	Gms / Litre
Sodium acetate	10.000
Peptone	10.000
Yeast extract	10.000
Dextrose (Glucose)	10.000
Dipotassium hydrogen phosphate	0.250
Potassium dihydrogen 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 performance parameters

Directions

Suspend 40.61 grams in 1000 ml purified/distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And 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 peptone 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.

Type of specimen

Food and dairy samples; Pharmaceutical samples

Specimen Collection and Handling:

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (3,8,10). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Cream to yellow coloured homogeneous free flowing powder

