



Product Data Sheet

GLUCOSE YEAST EXTRACT ACETATE BROTH

Product No. GB-DCM-00241-1A

INTENDED USE

For cultivation of Lactobacillus species.

PRODUCT SUMMARY

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

Product Specifications

Ingredients	Gms / Ltr
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

PRINCIPLE

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.



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INSTRUCTION FOR USE

- Dissolve 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 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow coloured homogeneous free flowing powder.

Appearance of prepared medium: Light yellow coloured clear solution without any precipitate.

pH (at 25°C) : 6.9 ± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Raffinose (72 hours)	Salicin (24 hours)	Incubation Temperature	Incubation Period
Clostridium perfringens	12924	50-100	Luxuriant	Acid production, yellow colour	Negative reaction, no colour change or red	35-37°C	24-72 Hours
Clostridium paraperfringens	-	50-100	Luxuriant	Negative reaction, no colour change or red	Acid and gas production, yellow colour and bubble formation	35-37°C	24-72 Hours
Escherichia coli	25922	50-100	Luxuriant	Negative reaction, no colour change or red	Negative reaction, no colour change or red	35-37°C	24-72 Hours



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TORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.