



DEV Glucose Broth

M1355

DEV Glucose Broth is used for detection of microbial decomposition of glucose.

Composition**

Ingredients	Gms / Litre
Meat peptone	10.000
Meat extract	3.000
Sodium chloride	5.000
D(+) Glucose	10.000
Bromo cresol purple	0.020
Final pH (at 25°C)	7.4±0.1

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 28.02 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes containing Durham's tubes and sterilize by autoclaving at 115°C for 20 minutes.

Note: #- Corresponds to 10 lbs pressure

Principle And Interpretation

DEV Glucose Broth is used for detection of microbial decomposition of glucose. This medium is also suitable for the detection of *E.coli* for bacteriological control of drinking water (1).

Meat peptone and meat extract provides nitrogenous nutrients to the organisms. Sodium chloride maintains the osmotic equilibrium of the medium. Bromo Cresol purple is the pH indicator which turns yellow at acidic pH. Gas formation is seen in Durham's tube.

Quality Control

Appearance

Light yellow to light green homogeneous free flowing powder

Colour and Clarity of prepared medium

Light purple coloured clear solution

Reaction

Reaction of 2.8% w/v aqueous solution at 25°C. pH : 7.4±0.1

pH

7.30-7.50

Cultural Response

M1355: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Acid	Gas
Cultural Response <i>Alcaligenes faecalis</i> ATCC 8750	50-100	fair-good	negative reaction, no colour change	negative reaction
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant	positive reaction, yellow colour	positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	good-luxuriant	positive reaction, yellow colour	positive reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	50-100	good-luxuriant	positive reaction, yellow colour	positive reaction
<i>Salmonella Typhimurium</i> ATCC 14028	50-100	good-luxuriant	positive reaction, yellow colour	positive reaction

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2–8°C. Use before expiry date on the label.

Reference

1.Fluka Chemie AG-Laboratroy Chemical and Analytical Reagents 1999 – 2000/-(424).

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