

Technical Information

Tryptone Glucose Extract Broth

Product Code: DM 1952

Application: - Tryptone Glucose Yeast Extract Broth is recommended for enumeration of microorganisms from foods by MPN technique.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	10.000
Glucose	5.000
Yeast extract	1.000
Dipotassium phosphate	1.250
Final pH (at 25°C)	6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Tryptone Glucose Yeast Extract Broth is recommended by APHA ⁽¹⁾ for enumeration of microorganisms from food materials by MPN technique. during microbiological examination Casein enzymic hydrolysate, yeast extract provide nitrogenous compounds, vitamin B complex and other essential growth nutrients. Glucose is the source of energy whereas dipotassium phosphate buffers the medium.

Methodology

Suspend 17.25 grams of powder media in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense in sterile test tubes.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution in tubes.

Reaction

Reaction of 1.72% w/v aqueous solution at 25°C. pH : 6.8±0.2

pH Range:-

6.60-7.00

Cultural Response/Characteristics

DM 1952: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism

Bacillus subtilis ATCC 6633

Escherichia coli ATCC 25922

Enterobacter aerogenes ATCC 13048

Enterococcus faecalis ATCC 29212

Lactobacillus casei ATCC 9595

Pseudomonas aeruginosa ATCC 27853

Staphylococcus aureus ATCC 25923

Inoculum (CFU)

50-100

50-100

50-100

50-100

50-100

50-100

50-100

Growth

luxuriant

luxuriant

luxuriant

luxuriant

luxuriant

luxuriant

luxuriant

luxuriant



Dehydrated Culture Media
Bases / Media Supplements

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

1. Downes F. P. and Ito K., (Eds.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., APHA, Washington, D.C.

Disclaimer :

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