

Technical Information

Tryptone Yeast Extract Broth (ISP Medium No. 1)

Product Code: DM 1356

Application: Tryptone Yeast Extract Broth (ISP Medium No.1) is used as a general purpose enrichment medium for not particularly fastidious microorganisms.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Yeast extract	3.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Tryptone Yeast Extract Broth is formulated as per International Streptomyces Project ⁽¹⁾. Casein enzymic hydrolysate and yeast extract provide nitrogenous compounds, carbon, sulphur, vitamin B complex and trace elements, necessary for bacterial metabolism. With the addition of carbohydrate and a pH indicator, it can also be used for fermentation studies. Inoculate the tubes with the test organism and incubate at 30°C ± 2°C for upto 96 hours. Inoculate ISP Medium No. 2 (DM1424) or ISP Medium No. 4 (DM1359) with the test organisms by placing approximately 0.1 ml of the inoculum near the edge of the plate. Five parallel streaks across the plate are made from this 0.1 ml of inoculum followed by four perpendicular streaks. Incubate the plates. ISP Medium No. 1 is used as an enrichment medium for *Streptomyces* species.

Methodology

Suspend 8 grams of powder media in 1000 ml distilled water. Shake well and heat to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light amber coloured clear solution without any precipitate.

Reaction

Reaction of 0.8% w/v aqueous solution at 25°C. pH : 7.0±0.2

pH Range 6.80-7.20

Cultural Response/Characteristics

DM1356: Cultural characteristics observed after an incubation at 28-32°C for 18-24 hours.

Organism

Escherichia coli ATCC 25922

Staphylococcus aureus ATCC 25923

Streptomyces lavendulae ATCC 8664

Streptomyces albus subsp albus ATCC 3004

Growth

Luxuriant

Luxuriant

Luxuriant

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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. Sherling E.B. and Gotlieb.,1966, International J.Systemic Bacteriol., 16:3.

Disclaimer :

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