



Tryptone Yeast Extract Broth (ISP Medium No. 1)

M356

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

Directions

Suspend 8 grams in 1000 ml 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

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 added 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 (M424) or ISP Medium No. 4 (M359) 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.

Quality Control

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

6.80-7.20

Cultural Response

M356: Cultural characteristics observed after an incubation at 28-32°C for 18-24 hours.

Organism	Growth
Cultural Response	
<i>Escherichia coli</i> ATCC 25922	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	luxuriant
<i>Streptomyces lavendulae</i> ATCC 8664	luxuriant
<i>Streptomyces albus</i> subsp <i>albus</i> ATCC 3004	luxuriant

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

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