

TECHNICAL DATA SHEET

Tryptone Broth (Tryptone Water)

Principle

Tryptone broth is composed of tryptone and sodium chloride. Tryptone provides nitrogen, carbon and other essential growth factors. Sodium chloride maintains osmotic equilibrium. Tryptone broth is used for detection of indole production, which one of the necessary biochemical tests in identification of bacteria. The indole production is detected by using Kovac's reagent by formation of red color complex.

Use: For detection of indole producing microorganisms.

Contents*

Ingredients	Gram/Litre
Tryptone	10.00
Sodium Chloride	5.00
pH at 25°C	7.5 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 15.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light Beige colored free flowing, homogeneous powder
Reaction of 1.5% solution	7.5 $\pm$ 0.2 at 25 °C
pH	7.10- 7.50
Color and clarity of ready medium	Light amber colored opalescent solution
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed after incubation at 33-37°C for 18-24 hours.

Organism	ATCC	Inoculum	Growth	Indole production
<i>Escherichia coli</i>	8739	50-100	Luxuriant	Positive reaction
<i>Klebsiella aerogenes</i>	13048	50-100	Luxuriant	Negative reaction

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
2. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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