

TECHNICAL DATA SHEET

Tryptone Bile Agar

Principle

Tryptone provide nitrogen and amino acids required for the growth of microorganisms. Bile Salts, is selective agent, added to suppress coliform bacteria and inhibit gram-positive organisms except *Escherichia coli*. Certain organisms' breakdown the tryptophan to indole. The indole produced can be detected by either Kovacs or Ehrlich's reagent.

Use: For rapid detection and enumeration of *Escherichia coli* in foods using direct plating method.

Contents*

Ingredients	Gram/Litre
Tryptone	20.00
Bile salt	1.50
Agar	15.00
pH at 25°C	7.2 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 36.50 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Food and dairy and water sample, 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	Beige colored free flowing, homogeneous powder
Reaction of 3.65% solution	7.2 $\pm$ 0.2 at 25 °C
pH	7.00- 7.40
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Light amber colored opalescent gel
Growth Promotion properties	Best at $\leq$ 100 CFU at 42-46°C for 18-48 h
Indicative properties	Optimum at $\leq$ 100 CFU at 42-46°C for 18-24 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Prepare media as per the label directions. Inoculate (50-100 CFU) and incubate at 44 $\pm$ 2°C for 18-24 hours.

Organism	ATCC	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i>	8739	50-100	Luxuriant	$\geq$ 60%
<i>Escherichia coli</i>	25922	50-100	Luxuriant	$\geq$ 60%
<i>Klebsiella aerogenes</i>	13048	50-100	Inhibited	--

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.

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Reference

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