

TECHNICAL DATA SHEET

Tryptic Soya Agar

Principle

Tryptic Soya Agar is used for cultivation of a wide variety of organisms. The medium is a highly nutritious composed of tryptone, soya peptone, sodium chloride, dextrose, dipotassium hydrogen phosphate and agar. Tryptone, papain digest of soy peptone provides ample amount of the carbon and nitrogen source and trace. Dextrose is carbon source. Phosphate is buffering agent. Sodium chloride maintains the osmotic balance and agar is used as solidifying agent. Media is specially used for the cultivation of Salmonella typhimurium from clinical and non-clinical samples, food and dairy products. In addition to that it is also used for isolation, cultivation and maintenance of other fastidious organisms too.

Use: For a cultivation and maintenance of Salmonella typhi.

Contents*

Ingredients	Gram/Liter
Tryptone	17.00
Soya Peptone	3.00
Sodium Chloride	5.00
Dextrose	2.50
Dipotassium hydrogen phosphate	2.50
Agar	15.00
pH at 25°C	7.3 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 45.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45°C and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

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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.

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
Reaction of 4.5% solution	7.30 $\pm$ 0.2 at 25 °C
pH	7.10- 7.50
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Light amber, clear opalescent gel
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: Prepare media as per the label directions. Inoculate and incubate the plates at 30-35°C for 18-24 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery
Salmonella typhimurium	14028	Luxuriant	$\geq$ 70%
Salmonella abony	NCTC-6017	Luxuriant	$\geq$ 70%
Salmonella enterica	9150	Luxuriant	$\geq$ 70%
Salmonella enteritidis	13076	Luxuriant	$\geq$ 70%

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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. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.
2. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
3. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
6. Microbial Type Culture Collection and Gene Bank (MTCC), Institute of Microbial Technology, Chandigarh.

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