



Tryptone Soya Agar (Harmonized)

RDM-H-TrSA-01

Principle

Tryptone soya agar is used for cultivation of a wide variety of organisms. It is also recommended by USP, IP and EP for sterility testing and as medium for microbial limit testing of pharmaceutical products and raw material used in pharmaceutical industries. The medium is a highly nutritious and prepared in accordance with the harmonized principles of USP/EP/IP. Medium is consisting of pancreatic digest of casein, papain digest of soybean, sodium chloride and agar. The pancreatic digest of casein, papain digest of soybean provides ample amount of the carbon and nitrogen source and trace. Sodium chloride maintains the osmotic balance and agar is used as solidifying agent.

Use: Recommended for the isolation and cultivation of fastidious microorganisms from clinical and non-clinical samples.

Contents*

Ingredients

	Gram/Litre
Pancreatic Digest of Casein	15.00
Papain Digest of Soybean	5.00
Sodium Chloride	5.00
Agar	15.00
pH at 25°C	7.3 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 40.00 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 sample.

Precautions to be taken

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 4.0% solution	7.30 ±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 ≤ 100 CFU at $35 \pm 2^\circ\text{C}$ for 18-72 hours for bacteria and for yeasts and molds is $25 \pm 2^\circ\text{C}$ for 3-5 days
Indicative properties	Optimum at ≤ 100 CFU at $35 \pm 2^\circ\text{C}$ for 18-72 hours for bacteria and for yeasts and molds is $25 \pm 2^\circ\text{C}$ for 3-5 days
Negative control	Performed using sterile distilled water

Different Microbial Response: Prepare media as per the label directions.

Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP/IP and growth is observed after incubation at $30-35^\circ\text{C}$ for 18-24 hours for bacteria and 20°C - 25°C 3-5 days for fungi.

Organism	ATCC	Inoculum (CFU)	Growth	Recovery
<i>Staphylococcus aureus</i>	6538	50-100	Luxuriant	$\geq 70\%$
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	$\geq 70\%$
<i>Bacillus spizizenii</i>	6633	50-100	Luxuriant	$\geq 70\%$
<i>Pseudomonas aeruginosa</i>	9027	50-100	Luxuriant	$\geq 70\%$
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant	$\geq 70\%$
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant	$\geq 70\%$
<i>Escherichia coli</i>	8739	50-100	Luxuriant	$\geq 70\%$
<i>Candida albicans</i>	10231	50-100	Luxuriant	$\geq 70\%$
<i>Aspergillus brasiliensis</i>	16404	50-100	Luxuriant	$\geq 60\%$

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.
3. Indian Pharmacopoeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
4. The United States Pharmacopoeia, (2014), The United States Pharmacopeial Convention. 12601 Twinbrook Parkway, Rockville, MD 20852.

Disclaimer

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