



## Tryptic Soya Agar

RDM-TrSA-01

### 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:** Recommended for the isolation and cultivation and maintenance of *Salmonella typhimurium* from clinical and non-clinical samples.

### Contents\*

Ingredients	Gram/Litre
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 sample.

### 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

<b>Appearance</b>	Light beige colored, free-flowing, homogeneous
<b>Reaction of 4.5% solution</b>	7.30 ±0.2 at 25 °C
<b>pH</b>	7.10- 7.50
<b>Gelling</b>	Firm comparable with 1.5% agar gel
<b>Color and clarity of ready medium</b>	Light amber, clear opalescent gel
<b>Growth Promotion properties</b>	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
<b>Indicative properties</b>	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h

Negative control	Performed using sterile distilled water
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### Different Microbial Response

Organism	ATCC	Growth	Recovery (%)	Incubation
<i>Salmonella typhi</i>	6539	Luxurious	92.31	30-37°C, 18-24 hrs
<i>Staphylococcus aureus</i>	25923	Luxurious	90.22	30-37°C, 18-24 hrs
<i>Bacillus spizizenii</i>	6633	Luxurious	90.80	30-37°C, 18-24 hrs
<i>Pseudomonas aeruginosa</i>	27853	Luxurious	88.30	30-37°C, 18-24 hrs
<i>Escherichia coli</i>	8739	Luxurious	91.86	30-37°C, 18-24 hrs
<i>Candida albicans</i>	10231	Luxurious	60-46%	30-37°C, 24-72 hrs
<i>Aspergillus brasiliensis</i>	16404	Luxurious	72.41%	30-37°C, 24-72 hrs
<i>Clostridium sporogenes</i>	19404	Luxurious	60.43%	30-37°C, 24-72 hrs

### Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

**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). 11<sup>th</sup> Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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