

TECHNICAL DATA SHEET

Tryptone Soya Yeast Extract Broth

Principle

Tryptone soya yeast extract broth is simple media used for enumeration of *Listeria monocytogenes* from food and dairy products. It is formulated as per APHA (1992) composed of tryptone, soya peptone, sodium chloride, Dipotassium phosphate, yeast extract and glucose. Tryptone, soya peptone and yeast extract provide nitrogen, carbon, vitamins and other essential growth factors. Glucose is carbon and energy source. Sodium chloride maintains osmotic equilibrium and phosphate act as buffering agent.

Use: For isolation and cultivation of *Listeria* from Henry's light

Contents*

Ingredients	Gram/Litre
Tryptone	17.000
Soya peptone	3.000
Sodium chloride	5.000
Dipotassium phosphate	2.500
Dextrose	2.500
Yeast Extract	6.000
pH at 25°C	7.3±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 36.00 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 inoculate test sample aseptically.

Specimens types analyzed

Food and dairy 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.

OXFORD LAB FINE CHEM LLP

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Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com



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 3.60 % solution	7.3 $\pm$ 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

Prepare medium as per label directions, Inoculate with 50-100 CFU of test organism. Incubate at 35 $\pm$ 2°C for 24-48 hours.

Organism	ATCC	Inoculum	Growth
<i>Listeria monocytogenes</i>	19111	50-100	Luxurious

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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Web: www.oxfordlabchem.com



Reference

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