OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Tryptone Soya Yeast Extract Agar

Principle

Tryptone soya yeast extract agar is formulated as per APHA (1992) and used for the isolation and cultivation of *Listeria monocytogenes* from food samples. The medium is a highly nutritious composed of casein enzymic hydrolysate, papain digest of soy peptone, sodium chloride, Dipotassium phosphate, dextrose, yeast extract and agar. Casein enzyme Hydrolysate and papain digest of soy peptone provides ample amount of the carbon and nitrogen source and trace. Yeast extract is additional source of nitrogen, carbon, vitamins and other essential elements required for the growth. Sodium chloride maintains the osmotic balance, phosphate act as buffing agent and agar is used as solidifying agent. Listeria colonies are dense white to iridescent white appearing as crushed glass. Other colonies tend to be yellowish or orange.

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

Contents*

Ingredients	Gram/Litre
Casein enzymic Hydrolysate	17.000
Papain digest of soy peptone	3.000
Sodium chloride	5.000
Dipotassium phosphate	2.500
Dextrose	2.500
Yeast extract	6.000
Agar	15.000
pH at 25˚C	7.3 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 51.00 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.

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Specimens types analyzed
Food and dairy 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

Appearance	**Light beige colored, free-flowing, homogeneous**
Reaction of 5.1% 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 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response
Cultural characteristics observed after an incubation at 30-37°C for 24-48 hours

Organism	ATCC	Inoculum CFU	Growth	Recovery
Listeria monocytogenes	**13932**	**50-100**	**Luxuriant**	**≥ 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. **Atlas, R. M. (2005).** ***Handbook of media for environmental microbiology*****. CRC press.**
2. **Vanderzant C. and Splittstoesser D. F., (Eds.), (1992),** ***Compendium of Methods for the Microbiological Examination of Foods*****, 3rd Ed., APHA, Washington, D.C.**
3. **International Organization for Standardization (ISO), (1993), Draft, ISO/DIS 10560.**
4. **FDA,** ***Bacteriological Analytical Manual*****, (2005), 18th Ed., AOAC, Washington, DC.**

Disclaimer:

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