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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Modified Tryptone Soya Broth with Novobiocin (m-TSB-N) (Soyabean bile broth w/Novobiocin)

Principle

Modified tryptone soya broth is composed of tryptone, soy peptone, dextrose, sodium chloride, dipotassium phosphate, bile salts and novobiocin. Tryptone and soy peptone provide nitrogen and other essential nutrients. Dextrose is a carbon source, serves as energy source for optimum growth. Sodium chloride maintains osmotic balance, while di-potassium phosphate is a buffering agent. Bile salts inhibit the gram positive bacteria. The novobiocin is added to increase the selectivity for *Escherichia coli* associate with food-borne illness, it inhibits associate microorganisms.

Use: For the selective enrichment of enterohemorrhagic E. coli (EHEC) in foods, especially meat & poultry products.

Contents*

Ingredients	Gram/Litre
Tryptone	17.000
Soy Peptone	3.000
Dextrose	2.500
Sodium Chloride	5.000
Dipotassium Phosphate	4.000
Bile Salts	1.500
Novobiocin	0.020
pH at 25˚C	7.4 ±0.2

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

Directions: Dissolve 33.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically. 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

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Food and dairy samples, clinical and non-clinical 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.

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 hygroscopic powder.**
Reaction of 3.3% solution	**7.4 ±0.2 at 25 ˚C**
pH	**7.20- 7.60**
Color and clarity of ready medium	**Light amber colored clear solution.**
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

Organism	ATCC	Inoculum	Growth	Incubation
Escherichia coli	8739	50-100	Good	33-37 ºC, 18-48 h
Staphylococcus aureus	6538	50-100	Inhibition	33-37 ºC, 18-48 h

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

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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. ***Difco Manual*** **(1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
2. ***FDA Bacteriological Analytical Manual, 8th Edition/1995, Chapter 4.*** **Escherichia coli and the Coliform Bacteria, page 4.20: Isolation Methods for *Enterohemorrhagic* E. coli (EHEC). 3. S.D.**
3. **Weagant, J.L. Bryant, K.G. Jinneman, *An improved rapid technique for isolation of Escherichia coli 0157:H7 from foods*, J. Food Prot., 58; 7-12 (1995)**

Disclaimer:

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