

Salmonella Selective Enrichment Broth

Intended Use

Salmonella Selective Enrichment Broth is recommended for selective enrichment of *Salmonella* species.

Summary

Salmonella Enrichment Broth Base is recommended for the selective enrichment of *Salmonella* species within 18-24 hours. *Salmonella* are ubiquitous in the environment and are usually present in small numbers compared to coliforms therefore it is necessary to examine a relatively large sample to isolate the organisms. *Salmonella* present in food samples may be sub lethally damaged during various stages of food processing where they may be exposed to low temperatures, heat drying, radiations, and various chemicals. These damaged cells are able to cause spoilage, and if ingested cause diseases under favourable conditions. Therefore, it is important to resuscitate these damaged bacteria before enumeration. Peptone, Yeast extract provides essential growth nutrients.

Principle

Peptone & yeast extract provides essential growth nutrients. Buffer mixture maintains pH stability. Growth mixture enhances the recovery of stressed or injured *Salmonella* cells.

Formula*

Ingredients	g/L
Peptone	5.0
Yeast Extract	5.0
Buffer Mixture	10.0
Growth Mixture	5.0
Final pH (at 25°C)	7.0 ± 0.2

*Adjusted to suit performance parameters.

Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Type of Specimen

Water and Waste Water samples; Food and Dairy samples

Specimen Collection and Handling

Ensure that all samples are properly labelled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

1. Suspend 25.00 g of the powder in 1000 mL purified / distilled water.
2. Heat if necessary, to dissolve the powder completely.
3. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.
4. Cool to 45°C-50°C and aseptically add the rehydrated contents of one vial of Salmonella Selective Enrichment Supplement.
5. Mix well and dispense as desired.

Quality Control

Dehydrated Appearance: Cream to yellow coloured, homogeneous, free flowing powder.

Prepared Appearance: Light yellow coloured, clear solution without any precipitate.

Cultural Response: Cultural characteristics observed with added Salmonella Selective Enrichment Supplement, after an incubation of 18-24 hours at 35°C-37°C.

Organism (ATCC)	Growth
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimurium</i> (14028)	Good
<i>Salmonella Enteritidis</i> (13076)	Good
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Abony</i> (NCTC 6017)	Good
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (25923)	Inhibited

Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. Cherry *et al.*, 1972, Appl. Microbiol., 24:334
2. Hartman and Minich, 1981, J. Food and Prot., 44:385
3. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
201190300100	Dehydrated Culture Media	100 g
201190300500	Dehydrated Culture Media	500 g

 Temperature Limit	 Manufacturer	LOT	Batch Code	 Date of Manufacture	 This way up	RO	Received on
REF Catalogue Number	 Consult Instructions for use	 Use-by Date	 Hygroscopic keep container tightly closed	OO	Opened on		

Revision: 0825/VER-03

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.