Saline Lactose Broth

Intended Use
Saline Lactose Broth is recommended for the detection of coagulase positive *Staphylococcus aureus*.

Summary
Saline Lactose Broth is an enrichment medium for coagulase positive *Staphylococcus aureus* in powder milk. Powder milk can contain coagulase positive *Staphylococcus aureus*. It is important to keep the number of these bacteria below levels at which enterotoxin production creates a health hazard. No more than just 1 µg of toxin is enough to cause illness.

Principle
Beef extract and proteose peptone provide nitrogen, vitamins, minerals and amino acids essential for growth. The degradation of lactose by bacteria produces acid products that change the colour of the medium from pink to yellow due to the pH indicator phenol red. Most of the other bacteria are inhibited by the high concentration of sodium chloride.

Formula*

Ingredients	**g/L**
Sodium Chloride	75.0
Proteose Peptone	7.5
Lactose	7.5
Beef Extract	1.5
Phenol Red	0.025
Final pH (at 25°C)	7.4 ± 0.1

*Adjusted to suit performance parameters.

Directions
1. Bring the Saline Lactose Broth vial to the room temperature 22°C-30°C.
2. Use Saline Lactose Broth as per required application.

Quality Control
Appearance: Red coloured, clear solution without any precipitate.
Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP and growth is observed after an incubation at 30°C-35°C for 24-48 hours.
Growth Promoting Properties: The test results observed are within the specified temperature and shortest period of time, inoculating ≤100 cfu (at 30°C-35°C for 18-24 hours).
Inhibitory Properties: No growth of the test microorganism occurs for the specified temperature and the longest period of time. inoculating >100 cfu (at 30°C-35°C for ≥ 48 hours).

Organisms (ATCC)	**Growth**
Staphylococcus aureus subsp. *aureus* (6538)	Good
Escherichia coli (8739)	Inhibited

Note: No growth of the organism should occur for the inhibitory test.
Inoculum for good growth is 10-100 cfu and that for inhibition is greater than 100 cfu.

Remarks

1. Do not use media bottles that exhibit any damage, cracks, microbial contamination, discolouration, drying or any other sign of deterioration.
2. Good laboratory practices and hazard precautions must be observed at all times.
3. After use media containers, sample, sample containers and other contaminated materials must be sterilized or incinerated before discarding.
4. All autoclaved biohazards should be disposed off in accordance with state and local environmental regulations.
5. Only qualified personnel who have been trained in microbiological procedures should handle all infected specimens and inoculated culture media.
6. User should ensure that any machinery or apparatus used and by chance contaminated must be safely disinfected or sterilized. The environment in which microbiological cultures are handled must also be taken into account.

Storage and Stability

1. Store the ready to use Saline Lactose Broth at 15°C-25°C in a cool, dry place away from light.
2. Stability of the kit is as per expiry date mentioned on the label.

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. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat. No.	Product Description	Pack Size
203190440100	Bottle Media	100 mL