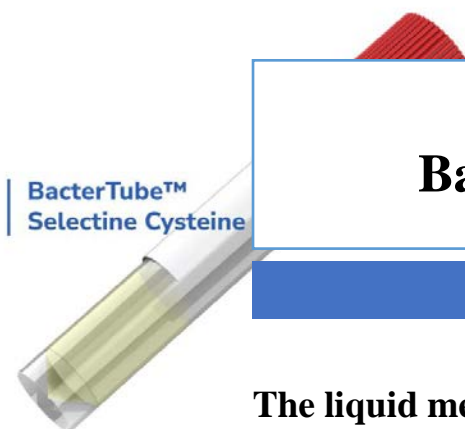


BacterLab Division



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ENRICHMENT MEDIUM

BacterTube™ Selectine Cysteine

The liquid medium used for the enrichment of *Salmonella*.

Code: 08005



1. INTENDED USE

BacterTube™ Selectine Cysteine is recommended as a selective enrichment medium for isolating *Salmonella* and possibly *Shigella sonnei* from samples such as feces, urine, water, and food.

2. PRINCIPLES

The medium contains selenite, which inhibits the growth of competing bacteria while allowing the selective enrichment of *Salmonella*.

Tryptone provides essential nutrients, including nitrogen and vitamins.

Lactose helps maintain pH stability.

L-Cystine enhances the recovery of *Salmonella*.

After enrichment, the broth is subcultured on differential agar media for further isolation

3. TYPICAL COMPOSITION

For 1 liter of medium

Tryptone	5,0 g
Lactose	4,0 g
Disodium phosphate	10,0 g
L-Cystine	0,01 g
Sodium biselenite	4,0 g

pH of the ready-to-use medium at 25°C: 7,0 ± 0,2

4. PREPARATION

The environmental plates are ready-to-use, no preparation required.

5. INSTRUCTIONS FOR USE

- **BacterTube™ Selectine Cysteine** can be used with the following specimens: faeces, urine, water samples and foods
- Allow tubes to reach room temperature before inoculation
- Add 1g of stool sample or 1ml of stool suspension into the tube. The swab sample can be directly placed into the tube containing the medium.
- Completely dissolve the mixture in the tube.
- Incubate under aerobic conditions for 12 – 24 hours at 35 – 37°C.
- After incubation, transfer 1 – 2 drops from the tube onto selective media such as MacConkey Agar or Hektoen Enteric Agar to isolate colonies.
- Continue incubating at 35–37°C.
- *Escherichia coli* and *Proteus* species are not inhibited indefinitely. If the initial concentration of these microorganisms is high, it is best to subculture onto solid media after 6 hours of incubation in selenite broth.

6. QUALITY CONTROL

BacterLab ensures the quality of each product batch by testing with ATCC reference strains.

Reference strains	Incubation conditions	Expected results
<i>Salmonella typhimurium</i> ATCC 14028	18 – 24 hours, 35 – 37°C, 5 – 10 % CO ₂	Good growth
<i>Escherichia coli</i> ATCC 25922 Then subculture onto MacConkey		Partially or fully inhibited.

7. STORAGE AND TRANSPORT CONDITIONS

- Storage: 2 – 8°C.
- Transportation: Ambient temperature.

8. PACKAGING

- Packaging: 50 tubes/ box or as per customer request.

9. SHELF LIFE

- Expiration Date: 6 months from the manufacturing date.

10. BIBLIOGRAPHY

- Klett A., 1900. Zeitsch Für Hyg. Und Infekt., 33:137.
- Leifson E., 1936. Am. J. Hyg., 24(2):423.
- HiMedia Laboratories. (2024). Technical Data Sheet: Selenite Cystine Broth Base (M1079). Retrieved from <https://www.himedialabs.com/media/TD/M1079.pdf>