

TM 313 - STAPHYLOCOCCUS AUREUS ENRICHMENT BROTH (DISINFECTANT TEST BROTH)

INTENDED USE

For enrichment of *Staphylococcus aureus*.

PRODUCT SUMMARY AND EXPLANATION

Bacteria in the genus *Staphylococcus* are pathogens of man and other mammals. Traditionally they were divided into two groups on the basis of their ability to clot blood plasma. The coagulase-positive Staphylococci constitute the most pathogenic species *Staphylococcus aureus*. The presence of Staphylococci in a lesion might first be suspected after examination of a direct gram stain. However, small numbers of bacteria in blood preclude microscopic examination and require culturing first. *Staphylococcus Aureus* Enrichment Broth (Disinfectant Test Broth) is recommended for enrichment of *S. aureus* and Disinfectant testing as per ISI Specifications.

COMPOSITION

| Ingredients | Gms / Ltr |
|--------------------------------|-----------|
| Meat (Beef) infusion | 5.00 |
| Peptic digest of animal tissue | 10.000 |
| Sodium chloride | 5.000 |

PRINCIPLE

Peptic digest of animal tissue and meat infusion provide carbonaceous, nitrogenous compounds and other necessary nutrients for the growth of the test organisms. Yeast extract provides vitamins and other trace nutrients. Sodium chloride maintains the osmotic equilibrium.

INSTRUCTION FOR USE

- Dissolve 20 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Yellow coloured, clear solution without any precipitate.
pH (at 25°C) : 6.8±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

| Microorganism | ATCC | Inoculum (CFU/ml) | Growth | Incubation Temperature | Incubation Period |
|---------------|------|-------------------|--------|------------------------|-------------------|
|---------------|------|-------------------|--------|------------------------|-------------------|

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|-------------------------------|-------|--------|----------------|---------|-------------|
| <i>Staphylococcus aureus</i> | 25923 | 50-100 | Luxuriant | 35-37°C | 18-24 Hours |
| <i>Staphylococcus aureus</i> | 6538 | 50-100 | Luxuriant | 35-37°C | 18-24 Hours |
| <i>Escherichia coli</i> | 25922 | 50-100 | Good-luxuriant | 35-37°C | 18-24 Hours |
| <i>Pseudomonas aeruginosa</i> | 27853 | 50-100 | Good-luxuriant | 35-37°C | 18-24 Hours |

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Easmon C. S. F., Adlam C., Staphylococci and staphylococcal infections. Vol. I & II, 1983, Academic Press, London.

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|  GMP Good Manufacturing Practices Certified |  IVD For In Vitro Diagnostic Use |  QTY. Quantity |  LOT/ B. NO. Lot / Batch Number |  REF Catalogue Number |  Manufacturer |
|  Temperature Unit |  EC REP Authorized Representative |  European Conformity |  QR Code |  Consults Instructions for Use |  Best Before |

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For Lab Use Only
Revision: 08 Nov., 2019