



**DISINFECTANT TEST BROTH (USING S. AUREUS as TEST Organism)**  
**(as per BIS) TM 313**

For enrichment of *Staphylococcus aureus*

**Composition**

Ingredients	Gms/Ltr.
Peptic digest of animal tissue	10.00
Meat infusion	5.00
Sodium chloride	5.00

\* Dehydrated powder, hygroscopic in nature, store, in a dry place in tightly- sealed containers below 25°C and protect from direct Sunlight.

**Instructions for Use**

Dissolve 20.00gms in 1000ml distilled water. Sterilize by autoclaving at 15psi (121°C) for 15 minutes. Cool to 40- 45°C and dispense into sterile tubes.

**Appearance:** Yellow colour, clear solution

**pH (at 25°C):** 6.8 ± 0.2

**Principle**

**DISINFECTANT TEST BROTH (as per BIS)** is used for enrichment of *Staphylococcus aureus*. *Staphylococcus aureus* is a bacterium that is a member of the Firmicutes, and is frequently found in the human respiratory tract and on the skin. Although *S. aureus* is not always pathogenic, it is a common cause of skin infections (e.g. boils), respiratory disease (e.g. sinusitis), and food poisoning. Disease-associated strains often promote infections by producing potent protein toxins, and expressing cell-surface proteins that bind and inactivate antibodies. This medium is prepared according to guidelines of BIS. Medium composed of Peptic digest of animal tissue and Meat infusion which acts as a source of nitrogen, carbon and amino acids. Sodium chloride maintains the osmotic equilibrium of the medium.

**Interpretation**

Cultural characteristics observed after inoculating (10<sup>3</sup>CFU/ml), on aerobically incubation at 35 - 37°C and examined after 18 - 24 hours.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Staphylococcus aureus</i>	25923	10 <sup>3</sup>	Luxuriant
<i>Staphylococcus aureus</i>	6538	10 <sup>3</sup>	Luxuriant

**References**

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