

Staphylococcus Aureus Enrichment HiVeg™ Broth**MV464**

Staphylococcus Aureus Enrichment HiVeg Broth is recommended for enrichment of *Staphylococcus aureus* and also for disinfectant testing.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone	10.0
HiVeg infusion	5.0
Sodium chloride	5.0

Final pH (at 25°C) 6.8 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

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

Principle and Interpretation :

This medium is prepared by using HiVeg peptone and HiVeg infusion which is BSE/TSE risks free. This medium is the modification of Staphylococcus Aureus Enrichment Broth which is a selective medium used in the membrane filter technique for isolating pathogenic *Staphylococci* e.g. *Staphylococcus aureus*. *Staphylococcus aureus* is coagulase positive and is well documented as a human opportunistic pathogen and has been major cause of morbidity and mortality(1). Staphylococcus Aureus Enrichment HiVeg Broth, like the conventional medium is also used for disinfectant testing.

The medium contains ingredients like HiVeg infusion and HiVeg peptone, which provide necessary nutrients to the growth of *Staphylococcus aureus* when used as test organism in disinfectant testing. Sodium chloride in the medium helps to maintain osmotic equilibrium.

Product Profile :

Vegetable based (Code MV)©	Animal based (Code M)
MV464 HiVeg peptone HiVeg infusion	M464 Peptic digest of animal tissue Meat (Beef) infusion

Recommended for : Enrichment of *Staphylococcus aureus* and also for disinfectant testing.

Reconstitution : 20.0 g/l

Quantity on preparation (500g) : 25.0 L

pH (25°C) : 6.8 ± 0.2

Supplement : None

Sterilization : 121°C / 15 minutes.

Storage : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

Quality Control :**Appearance of powder**

Yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Colour and Clarity

Yellow coloured, clear solution without any precipitate.

Reaction

Reaction of 2.0% w/v aqueous solution is pH 6.8 ± 0.2 at 25°C

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18 - 24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	luxuriant
<i>Staphylococcus aureus</i> (6538)	10 ² -10 ³	luxuriant

References :

- Murray PR, Baron, Pfaller, and Tenover (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.