

## Disinfectant Test HiVeg™ Broth

MV354

Disinfectant Test HiVeg Broth is used for testing disinfectants.

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg peptone	10.0
HiVeg extract	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 to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle and Interpretation :**

Disinfectant Test HiVeg Broth is prepared by using HiVeg peptone and HiVeg extract in place of Peptic digest of animal tissue and Beef extract respectively making the medium free of BSE/TSE risks. Disinfectant Test HiVeg Broth is the modification of Disinfectant Test Broth (1, 2) used for testing disinfectants and especially for determining phenol coefficients of disinfectants.

The medium contains ingredients like HiVeg extract and HiVeg peptone which provide necessary nutrients to the growth of test organisms like *Salmonella* serotype Typhi, *Pseudomonas aeruginosa* and *Staphylococcus aureus*. Presence of sodium chloride balances the osmotic equilibrium.

**Quality Control :****Appearance of powder**

Light yellow coloured, may have slight greenish tinge, homogeneous, free flowing powder.

**Colour and Clarity**

Medium amber coloured, clear to slightly opalescent solution.

**Reaction**

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

**Product Profile :**

Vegetable based (Code MV)©	Animal based (Code M)
<b>MV354</b> HiVeg peptone HiVeg extract	<b>M354</b> Peptic digest of animal tissue Beef extract

**Recommended for** : Testing disinfectants

**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.

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37° for 18 - 24 hours. (Recovery on MacConkey HiVeg Agar MV082)

Organisms (ATCC)	Inoculum (CFU)	Growth*	Growth#	Recovery#	Colour of Colony
<i>Pseudomonas aeruginosa</i> (27853)	10 <sup>2</sup> -10 <sup>3</sup>	good-luxuriant	good-luxuriant	>70%	colourless
<i>Salmonella</i> serotype Typhi (6539)	10 <sup>2</sup> -10 <sup>3</sup>	good-luxuriant	good-luxuriant	>70%	colourless
<i>Staphylococcus aureus</i> (25923)	10 <sup>2</sup> -10 <sup>3</sup>	good-luxuriant	good-luxuriant	>70%	pale pink-red

KEY : \* = in MV354

# = on MV082 Macconkey HiVeg Agar

**References :**

- Williams (Ed.), 2005, Official methods of Analysis of AOAC, 18<sup>th</sup> ed. AOAC, Washington D.C.
- Journal of AOAC, 1964, 47:176.
- Methods of Analysis AOAC, 1980, 13<sup>th</sup> ed.



**MV354 Disinfectant Test HiVeg Broth**

- Control
- Staphylococcus aureus*
- Pseudomonas aeruginosa*
- Salmonella* serotype Typhi