

Standard Nutrient HiVeg™ Broth (H.S. Vaccine HiVeg™ Medium) MV116

Standard Nutrient HiVeg Broth is a highly nutritive medium recommended for large scale cultivation of bacteria for vaccine preparations.

Composition ** :

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

Final pH (at 25°C) 7.6 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 25 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

Standard Nutrient HiVeg Broth is prepared by using HiVeg peptone and HiVeg extract which are of vegetable origin and free from BSE/TSE risks. Standard Nutrient HiVeg Broth is the modification of Standard Nutrient Broth which is formulated as per the recommendation of APHA as a general purpose medium for the cultivation of non-fastidious organisms from water and wastewater, dairy and food products (1,2). Standard Nutrient HiVeg Broth, like the conventional medium, is a highly nutritive medium which supports luxuriant growth of a wide variety of organisms. The medium is therefore recommended for large scale cultivation of bacteria for vaccine preparations.

Quality Control :

Appearance of powder

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

Colour and Clarity

Amber coloured, clear solution without any precipitate

Reaction

Reaction of 2.5% w/v aqueous solution is pH 7.6 ± 0.2 at 25°C.

Product Profile :	
Vegetable based (Code MV)Ⓢ	Animal based (Code M)
MV116 HiVeg peptone HiVeg extract	M116 Peptic digest of lean mean infusion Beef extract
Recommended for	: Large scale cultivation of bacteria for vaccine preparations.
Reconstitution	: 25.0 g/l
Quantity on preparation (100g):	: 4.0 L
pH (25°C)	: 7.6 ± 0.2
Supplement	: None
Sterilization	: 121°C / 15 minutes.
Storage : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.	

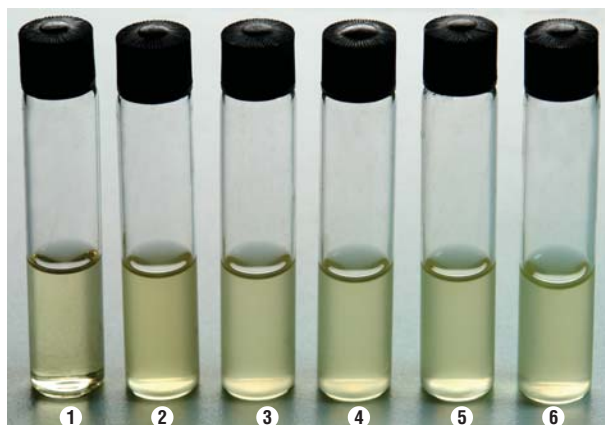
Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Enterobacter aerogenes</i> (13048)	10 ² -10 ³	good-luxuriant
<i>Escherichia coli</i> (25922)	10 ² -10 ³	good-luxuriant
<i>Salmonella</i> serotype Typhi (6539)	10 ² -10 ³	good-luxuriant
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	good-luxuriant
<i>Staphylococcus epidermidis</i> (12228)	10 ² -10 ³	good-luxuriant
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	good-luxuriant

References :

1. Clesceri L.S. and Greenberg A.E., Trussell R.R., (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 21st ed, APHA, Washington D.C.
2. Speek (Eds.), 1984, Compendium of Methods For The Microbiological Examination of Foods, 2nd ed., APHA, Washington, D.C.



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| 1. Control | 4. <i>Salmonella</i> serotype Typhi |
| 2. <i>Enterobacter aerogenes</i> | 5. <i>Staphylococcus aureus</i> |
| 3. <i>Escherichia coli</i> | 6. <i>Staphylococcus epidermidis</i> |