

Tryptose Phosphate Broth, HiVeg™

MV093

Tryptose Phosphate Broth, HiVeg is used for the cultivation of fastidious bacteria and also as an adjuvant to tissue culture media.

Composition ** :

Ingredients	Grams/Litre
HiVeg hydrolysate No. 1	20.0
Dextrose	2.0
Sodium chloride	5.0
Disodium phosphate	2.5

Final pH (at 25°C) 7.3 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 29.5 grams in 1000 ml distilled water. Add 0.1% agar, if desired. Heat if necessary to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

Tryptose Phosphate Broth, HiVeg is prepared by completely replacing animal based Tryptose with HiVeg hydrolysate No.1 which is free of BSE/TSE risk. Tryptose Phosphate Broth, HiVeg is the modification of Tryptose Phosphate Broth which is prepared as recommended by APHA (1) for the cultivation of fastidious aerobic bacteria especially *Streptococcus* species, *Listeria* and pathogenic *Neisseria* species. This like the conventional medium can be used for antibiotic sensitivity testing by tube method (2) and as an adjuvant in tissue culture media (3). This medium serves the same purpose as that of the conventional medium, that is, with the addition of agar and sodium azide is used for the isolation of pathogenic *Streptococci*, *Neisseria* and other fastidious microorganisms from blood, dairy products (4) and clinical specimens. Tryptose Phosphate Broth, HiVeg with added agar can also be used for emulsification of cheese before isolation of *Bruceella* species



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1. Control
2. *Neisseria meningitidis*
3. *Staphylococcus aureus*
4. *Streptococcus pyogenes*

Product Profile :

Vegetable based (Code MV)©		Animal based (Code M)	
MV093	HiVeg hydrolysate No. 1	M093	Tryptose
Recommended for	:	Cultivation of fastidious bacteria and also as an adjuvant to tissue culture media.	
Reconstitution	:	29.5 g/l	
Quantity on preparation (500g)	:	16.94 L	
pH (25°C)	:	7.3 ± 0.2	
Supplement	:	Agar, if desired	
Sterilization	:	121°C / 15 minutes.	
Storage	:	Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.	

For blood culture work aseptically add 10 ml of sterile defibrinated blood to 150 ml of sterile medium in 300 ml Erlenmeyer flask. Incubate and subculture on other media.

Quality Control :**Appearance of powder**

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

Colour and Clarity

Yellow coloured, clear solution without any precipitate.

Reaction

Reaction of 2.95% w/v aqueous solution is pH 7.3 ± 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>Neisseria meningitidis</i> (13090)	10 ² -10 ³	good
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	luxuriant
<i>Streptococcus pneumoniae</i> (6303)	10 ² -10 ³	luxuriant
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	luxuriant

References :

1. American Public Health Association, 1976, Standard Methods for the Examination of Dairy Products, 14th ed., APHA Inc., New York.
2. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
3. Ginsberg H.S. et al, 1955, Proc. Soc. Exp. Biol. Med., 89:66.
4. Newman R.W., 1950, J. Milk Food, Tech., 13 : 226.