Polysorbate 80 HiVeg™ Agar (Twin Pack) MV1307

Polysorbate 80 HiVeg Agar is recommended for the cultivation of variety of microorganisms.

Composition ** :

Ingredients	Grams/Litre
Part A:	
HiVeg peptone	10.00
Agar	15.0
Part B:	
Polysorbate 80	10.0

Final pH (at 25°C) 7.2 ± 0.2
** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 25.0 grams of Part A in 990 ml distilled water. Heat to boiling to dissolve the medium completely. Add 10 ml of Part B. Mix well and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

Polysorbate 80 HiVeg Agar is prepared by using HiVeg peptone in place of peptic digest of animal tissue which is free from BSE/TSE risks. This medium is the modification of Polysorbate 80 Agar which is recommended for the cultivation of variety of microorganisms. It is a nutritional medium containing neutralizing agent. The medium contains HiVeg peptone which provide the necessary nutrients for the growth of the organisms. Polysorbate 80 provides fatty acids for the metabolism of the organisms and neutralizes phenolic disinfectants, hexachlorophene and formalin (1).

Quality Control :

Appearance of powder

Part A : Yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder
Part B : Colourless, clear viscous liquid

Product Profile :		
Vegetable based (Code MV)◉		**Animal based** (Code M)
MV1307 HiVeg peptone		**M1307** Peptic digest of animal tissue
Recommended for	:	Cultivation of variety of microorganisms.
Reconstitution	:	25.0 g/lt of Part A+10 ml/lt of Part B
Quantity on preparation (500g)	:	20.0 L (Part A)
pH (25°C)	:	7.2 ± 0.2
Supplement	:	None
Sterilization	:	121°C / 15 minutes.
Storage : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.		

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity

Yellow coloured, clear to slightly opalescent gel forms in petriplates.

Reaction

Reaction of the medium (2.5% w/v part A + 1.0% v/v part B) is pH 7.2 ± 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	Recovery
Bacillus subtilis (6633)	10^2-10^3	luxuriant	>70%
Candida albicans (10231)	10^2-10^3	luxuriant	>70%
Escherichia coli (25922)	10^2-10^3	luxuriant	>70%
Staphylococcus aureus (25923)	10^2-10^3	luxuriant	>70%

References :

1. Favero (chm.) 1967, Microbiological sampling of surfaces, Biological Contamination Control Committee, American Asso. For Contamination Control.

◉ Prepared from GMO free Vegetable proteins replacing Animal based peptones. Freedom from BSE/TSE worries.