Pseudomonas HiVeg™ Agar (For Pyocyanin) MV119

Pseudomonas HiVeg Agar (For Pyocyanin) is recommended for the detection of pyocyanin production by *Pseudomonas* species.

Composition ** :

Ingredients	Grams/Litre
HiVeg special peptone	20.00
Potassium sulphate	10.00
Magnesium chloride	1.40
Agar	15.00

Final pH (at 25°C) 7.0 ± 0.2
** Formula adjusted, standardized to suit performance parameters

Directions :

Suspend 46.4 grams in 1000 ml distilled water containing 10 ml glycerol. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

Pseudomonas HiVeg Agar is prepared by using HiVeg special peptone, which is free from BSE/TSE risks associated with animal based peptones. It is the modification of Pseudomonas Agar which is based on the formulation described by King et al (1) for detecting pyocyanin, a water soluble pigment by *Pseudomonas* species (2). This medium enhances the elaboration of pyocyanin but inhibits the formation of fluorescein pigment. The pyocyanin pigment diffuses from the colonies of *Pseudomonas* into the agar and shows blue colouration. Some *Pseudomonas* strains produce small amounts of fluorescein resulting in a blue-green colouration. HiVeg special peptone provides nitrogenous growth nutrients, carbon, sulphur and trace elements for *Pseudomonas* species. Potassium sulphate and magnesium chloride enhances the pyocyanin production and suppresses the fluorescein production. Glycerol acts as a source of energy and enhances pigment production.

Quality Control :

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

Gelling
Firm, comparable with 1.5% Agar gel.

Colour and Clarity
Yellow coloured, clear to slightly opalescent gel forms in petri plates.

Reaction
Reaction of 4.64% w/v aqueous solution (containing 1% v/v glycerol) is pH 7.0 ± 0.2 at 25°C.

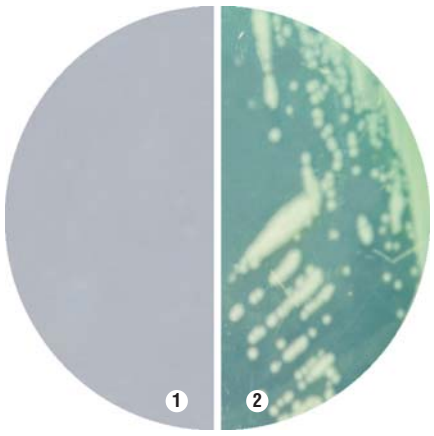
Product Profile :		
Vegetable based (Code MV)◉		**Animal based** (Code M)
MV119 HiVeg special peptone		**M119** Peptone special
Recommended for	:	Detection of pyocyanin production by *Pseudomonas aeruginosa.*
Reconstitution	:	46.4 g/l
Quantity on preparation (500g)	:	10.77 L
(100g) :		2.15 L
pH (25°C)	:	7.0 ± 0.2
Supplement	:	Glycerol
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 - 24 hours .

Organisms (ATCC)	Inoculum	Growth	Colour of Medium
Pseudomonas aeruginosa (27853)	30-300	luxuriant	blue-green

References :

1. King, Ward and Raney, 1954, J. Lab. Clin. Med., 44 : 301.
2. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Volume I, Williams and Wilkins, Baltimore.



MV119 Pseudomonas HiVeg Agar (For Pyocyanin) (Against dark background)
1. Control
2. *Pseudomonas aeruginosa*

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