Glucose HiVeg™ Peptone Agar MV758

Glucose HiVeg Peptone Agar is a highly nutritious medium used for cultivation of *Agrobacterium* and wide variety of microorganisms.

Composition** :

Ingredients	Grams/Litre
HiVeg peptone	20.00
Dextrose	10.00
Sodium chloride	5.00
Agar	15.00

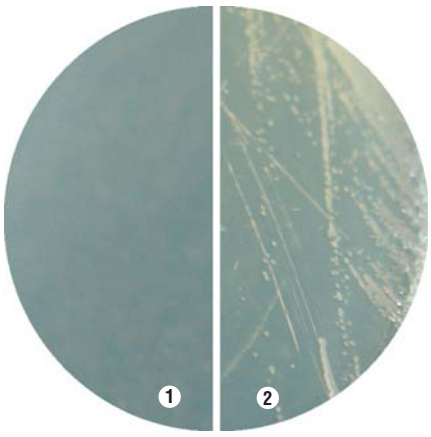
Final pH (at 25°C) 7.2 ± 0.2
** Formula adjusted, standardized to suit performance parameters

Directions :

Suspend 50 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

This medium is prepared by completely replacing animal based Peptic digest of animal tissue with HiVeg peptone and is the modification of Glucose Peptone Agar. Therefore it is free of TSE/BSE risks. It can also be used for cultivation of thermophilic organisms associated with flat sour spoilage in canned goods.
Glucose HiVeg Peptone Agar like the conventional Glucose Peptone Agar with addition of bromocresol purple (1% alcoholic solution) is suitable for cultivation of root nodulating bacteria (1). HiVeg peptone provides nitrogeneous nutrients especially amino acids and peptides. The presence of sodium chloride helps to maintain osmotic balance. Dextrose provides carbon and energy source. This medium supports growth of *Agrobacterium* species, as it grows abundantly in media containing dextrose as carbohydrate source (2).



MV758 Glucose HiVeg Peptone Agar
(Against dark background)

1. Control
2. *Agrobacterium tumefaciens*

Product Profile :	
Vegetable based (Code MV)◉	**Animal based** (Code M)
MV758 HiVeg peptone	**M758** Peptic digest of animal tissue

Recommended for	:	Cultivation of a wide variety of microorganisms and *Agrobacterium* species.
Reconstitution	:	50.0 g/l
Quantity on preparation (500g)	:	10.0 L
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.

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
Light yellow coloured, clear to slightly opalescent gel forms in petri plates.

Reaction
Reaction of 5.0% w/v aqueous solution 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
Agrobacterium tumefaciens (23308)	10^2-10^3	good-luxuriant	>70%
Escherichia coli (25922)	10^2-10^3	good-luxuriant	>70%
Pseudomonas aeruginosa (27853)	10^2-10^3	good-luxuriant	>70%
Staphylococcus aureus (25923)	10^2-10^3	good-luxuriant	>70%
Enterococcus faecalis (29212)	10^2-10^3	good-luxuriant	>70%

References :

1. Subba Rao, N.S. 1977, Soil microorganisms and plant growth, Oxford and IBH publishing Co., India.
2. Ronald M. Atlas (2004), Handbook of Microbiological Media, Lawrence C. Parks (ed.), 3rd Edition, CRC Press, p. No. 717.

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

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