

Potato Infusion HiVeg™ Agar**MV174**

Potato Infusion HiVeg Agar is recommended for isolation of *Brucella* species.

Composition ** :

Ingredients	Grams/Litre
Potato infusion from	200.00
HiVeg peptone	10.0
HiVeg extract	5.0
Dextrose	10.0
Sodium chloride	5.0
Agar	15.0

Final pH (at 25°C) 6.8 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 49 grams in 1000 ml of distilled water containing 20 ml of glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

Potato Infusion HiVeg Agar is prepared by replacing Peptic digest of animal tissue and Beef extract with HiVeg peptone and HiVeg extract which are free from BSE/TSE risks. Potato Infusion HiVeg Agar is the modification of Potato Infusion Agar which is used for the isolation of *Brucella* species. *Brucella* causes zoonotic diseases with a domestic animal reservoir (1). Transmission by milk, milk products, meat and direct contact with infected animals is the usual route of exposure. This medium contains infusion of potato, HiVeg extract and HiVeg peptone which provide necessary nutrients required for the growth of *Brucella*. It is also used for the cultivation of *Brucella* species in large scale in the antigen and vaccine preparation. This medium enables *Brucella* species to form typical colonies and is also used for isolation from infected materials.

Quality Control :**Appearance of powder**

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

Product Profile :

Vegetable based (Code MV)©	Animal based (Code M)
MV174 HiVeg peptone HiVeg extract	M174 Peptic digest of animal tissue Beef extract

Recommended for : Isolation of *Brucella* species

Reconstitution : 49.0 g/l

Quantity on preparation (500g) : 10.20 L

pH (25°C) : 6.8 ± 0.2

Supplement : Glycerol

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 petri plates.

Reaction

Reaction of 4.9% w/v aqueous solution (containing 2% v/v glycerol) is pH 6.8 ± 0.2 at 25°C

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 24 - 72 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Bordetella bronchiseptica</i> (4617)	10 ² -10 ³	luxuriant
<i>Brucella abortus</i> (4315)	10 ² -10 ³	luxuriant
<i>Brucella melitensis</i> (4309)	10 ² -10 ³	luxuriant
<i>Brucella suis</i> (6597)	10 ² -10 ³	luxuriant
<i>Streptococcus pneumoniae</i> (6303)	10 ² -10 ³	luxuriant

References :

- Murray PR, Baron, Pfaller and Tenenbaum (Eds), 2003, In Manual of Clinical Microbiology, 8th Ed, Washington, D.C.