

Milk HiVeg™ Agar (Brown and Scott Modified) (Twin Pack)**MV782**

Milk HiVeg Agar (Brown and Scott Modified) (Twin Pack) is used for the confirmation of *Pseudomonas aeruginosa* in swimming pool waters.

Composition ** :

Ingredients	Grams/Litre
Part A:	
Instant Non-Fat Milk	100.0
Part B:	
HiVeg peptone	5.0
Sodium chloride	5.0
HiVeg extract	1.5
Yeast extract	1.5
Agar	15.0

Final pH (at 25°C) 7.4 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Part A: Suspend 100 grams in 500 ml distilled water. Sterilize by autoclaving at 15 lbs pressure (121°C) for 5 minutes. Cool to 55°C.

Part B: Suspend 28 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool rapidly to 55°C. Mix Part A and Part B together and pour into sterile petri plates.

Principle and Interpretation :

Milk HiVeg Agar is prepared by completely replacing animal based peptones with vegetable peptones which makes the medium free from BSE/TSE risks. Milk HiVeg Agar is the modification of Milk Agar prepared by Brown and Scott (1) for the confirmation of *Pseudomonas aeruginosa* in swimming pool waters. Swimming pool water is generally chlorinated potable water but it can also be from thermal springs or salt water. Microorganisms of concern are typically those from the body of the bather's including the orifices. *Pseudomonas aeruginosa* is one of the major supporting indicator organisms in the swimming pool. This organism is mainly responsible for ear and eye infection and is very likely to get disseminated in the swimming pool water due to constant contact of ears and eyes with the water.

Milk, HiVeg peptone, yeast extract, HiVeg extract provide all the necessary nutrients mainly nitrogenous for the multiplication of *Pseudomonas aeruginosa*. *Pseudomonas aeruginosa* forms yellowish green colonies on this medium.

Product Profile :

Vegetable based (Code MV) ©	Animal based (Code M)
MV782 HiVeg peptone HiVeg extract	M782 Peptic digest of animal tissue Beef extract

Recommended for : Confirmation of *Pseudomonas aeruginosa* in swimming pool waters.

Reconstitution : 100 g/l Part A + 28 g/l Part B

Quantity on preparation (500g) : 3.90 L (A+B)

pH (25°C) : 7.4 ± 0.2

Supplement : None

Sterilization : Part A : 121°C / 5 minutes

Part B : 121°C / 15 minutes

Storage : Dry Medium-Below 30°C, Prepared Medium 2 - 8°C.

Quality Control :**Appearance of powder**

Part A : Cream coloured, homogeneous, free flowing powder.

Part B : Light yellow to 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, opalescent gel forms in petri plates.

Reaction

Reaction of 2.8% w/v aqueous solution of Part B is pH 7.4 ± 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	Pigment Production
<i>Escherichia coli</i> (25922)	10 ² -10 ³	luxuriant	>70%	-
<i>Pseudomonas aeruginosa</i> (27853)	10 ² -10 ³	luxuriant	>70%	yellowish green

References :

1. Brown M.R.W. and Scott F. J.H., 1970, J. Clin. Pathol., 23:172.