

## Technical Information

### Entamoeba MiVeg Medium

**Product Code : VM1077**

**Application:-**Entamoeba MiVeg Medium is used for cultivation of *Entamoeba histolytica* .

### Composition\*\*

Ingredients	Gms / Litre
MiVeg infusion No. 1	10.80
MiVeg peptone No. 3	5.5
Sodium $\beta$ - glycerophosphate	3.0
Sodium chloride	2.7
Agar	11.0
Final pH (at 25°C )	7.0 $\pm$ 0.2

\*\* Formula adjusted, standardized to suit performance parameters.

### Principle & Interpretation

Entamoeba MiVeg medium is prepared by adding vegetable peptones which are BSE/TSE risk free associated with animal based peptones. Entamoeba MiVeg medium is the modification of Entamoeba medium which was devised by Cleveland and Sanders (1) and Cleveland and Collier (2). It is highly specific for *Entamoeba histolytica*. *Endolimax nana*, *Dientamoeba fragilis* and *Escherichia coli* fail to grow on this medium, while *Entamoeba histolytica* grow abundantly. Other intestinal amoebae like on the conventional medium do not grow well on this medium as compared to *Entamoeba histolytica* (3).

### Methodology

Suspend 33 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow tubes to solidify in a slanted position. Cover about half of the slant with fresh sterile horse serum- saline mixture(1:6) and add a 5 mm loopful of Rice Powder which has been sterilized in an oven at 160°C for one hour. SCORCHING SHOULD BE PREVENTED.

### Quality Control

#### Physical Appearance

Brownish yellow coloured, homogeneous, free flowing powder.

#### Gelling

Firm, comparable with 1.1% Agar gel

#### Colour and Clarity of prepared medium

Dark amber coloured, slightly opalescent gel forms in tubes as slants .

#### Reaction

Reaction of 3.3% w/v aqueous solutions is pH 7.0  $\pm$  0.2 at 25°C.

#### pH range

6.8-7.2



Dehydrated Culture Media  
Bases / Media Supplements

### Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25 - 30°C for 68 - 72 hours.

#### Organisms (ATCC)

*Entamoeba histolytica*

*Entamoeba invadens*

*Entamoeba moskkovskii*

#### Growth

luxuriant

luxuriant

luxuriant

Key : \* = may or may not produce gas.

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 days.

## Further Reading

1. Cleveland and Sander's, 1930, Arch. Protistenkunde, 70:223.
2. Cleveland and Collier, 1930, Am. J. Hyg., 12:606.
3. Sixth Annual Year Book 1935-36, P. 130, Suppl., Am. J. Pub. Health, 1936, 26, No. 3.

## Disclaimer :

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