

## Technical Information

### Liquid MiVeg Broth

#### Product Code : VM1817

**Application:-** Liquid MiVeg Broth is used for the culture of blood specimens. Liquid in this medium annuls the naturally inhibitory action of blood on microbial growth.

#### Composition

Ingredients	Gms / Litre
MiVeg special infusion	7.50
MiVeg infusion	10.0
MiVeg peptone No. 3	10.0
Sodium chloride	5.0
Disodium phosphate	2.5
Dextrose	2.0
Sodium polyanethol sulphonate	0.5
Final pH (at 25°C)	7.4 ± 0.2

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

#### Principle & Interpretation

Liquid MiVeg Broth is prepared by adding MiVeg infusion, MiVeg special infusion and MiVeg peptone No.3 in place of Beef heart infusion, Calf brain infusion and Proteose peptone respectively thus making the medium BSE/TSE risk free. Liquid MiVeg Broth is the modification of Liquid Broth used for the culture of blood specimens from suspected bacteraemia cases (1). Liquid (Sodium polyanethol sulphonate) is a good anticoagulant. Moreover it is not inhibitory and has the added advantage of annulling the natural bactericidal action of blood.

MiVeg infusion, MiVeg special infusion and MiVeg peptone No.3 supplies essential carbonaceous and nitrogenous nutrients, vitamins and growth factors to the organisms. Dextrose is the carbon source and sodium chloride maintains the osmotic equilibrium of the medium.

#### Methodology

Suspend 37.5 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat if necessary to ensure complete solution. Dispense in two bottles or tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired 1gm/litre agar can be added to encourage growth of anaerobic organisms. For best results, use the medium on the day it is prepared otherwise boil or steam it to remove dissolved oxygen just before use.

#### Quality Control

##### Physical Appearance

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

##### Colour and Clarity of prepared medium

Light amber coloured, clear solution without any precipitate.

##### Reaction

Reaction of 3.75% w/v aqueous solution is pH 7.4 ± 0.2 at 25°C.

##### pH Range

7.2 - 7.6

**Cultural Response/Characteristics**

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Escherichia coli</i> (25922)	$10^2$ - $10^3$	luxuriant
<i>Salmonella</i> serotype Typhi (6539)	$10^2$ - $10^3$	luxuriant
<i>Staphylococcus aureus</i> (25923)	$10^2$ - $10^3$	luxuriant
<i>Streptococcus pyogenes</i> (19615)	$10^2$ - $10^3$	good-luxuriant

**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 day.

**Further Reading**

1. Mackie and McCartney, 1989, Practical Medical Microbiology, 13<sup>th</sup> ed., Vol. 2, Churchill Livingstone, Edinburgh.

**Disclaimer :**

- User must ensure suitability of the product(s) in their application prior to use.
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