

## Technical Information

### PSB MiVeg Broth Base

#### Product Code : VM1941

**Application:-** PSB MiVeg Broth Base is recommended for primary enrichment and enumeration of *Yersinia enterocolitica* from food.

#### Composition\*\*

Ingredients	Gms / Litre
MiVeg peptone	20.0
Sodium chloride	10.0
Disodium phosphate, anhydrous	18.0
Monopotassium phosphate, monohydrate	3.0
Final pH (at 25°C)	7.5 ± 0.2

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

#### Principle & Interpretation

PSB MiVeg Broth Base is prepared by adding MiVeg peptone in place of Peptic digest of animal tissue thereby making the medium BSE/TSE risks free. PSB MiVeg Broth is the modification of PSB Broth which is recommended by APHA (1) for enrichment of *Yersinia* species.

MiVeg peptone supplies all the essential growth nutrients. Sodium chloride maintains the osmotic equilibrium while phosphates buffers the medium well. The food homogenate is added to primary enrichment broth and is held at refrigeration temperature of 4°C for 1-4 weeks and at one or more intervals, aliquots of the homogenate are inoculated directly onto selective agar and/or into selective broth, which following incubation is streaked onto selective agar media like MacConkey MiVeg Agar (VM1081), SS MiVeg Agar (VM1108), *Yersinia* Selective MiVeg Agar Base (VM1843).

#### Methodology

Suspend 51 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat if necessary to ensure complete solution. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to room temperature and aseptically add filter sterilized Cycloheximide solution to a final concentration of 100 mg/litre medium.

#### Quality Control

##### Physical Appearance

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

##### Colour and Clarity of prepared medium

Light yellow coloured, clear to slightly hazy solution.

##### Reaction

Reaction of 5.1% w/v aqueous solution is pH 7.5 ± 0.2 at 25°C.

##### pH Range

7.3-7.7

##### Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25-30°C for 3-5 days or at refrigeration temperature for 4-7 days.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Yersinia enterocolitica</i> (27729)	10 <sup>2</sup> -10 <sup>3</sup>	good-luxuriant
<i>Yersinia pseudotuberculosis</i> (29833)	10 <sup>2</sup> -10 <sup>3</sup>	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.



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1. Control

2. *Yersinia enterocolitica*

## Further Reading

1. Downes FP and Ito K (Eds.), 2001, Compendium of Methods For The Microbiological Examination of Foods, 3<sup>rd</sup> ed., APHA, Washington, D.C.

### Disclaimer :

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