

## Technical Information

### Salt Polymyxin MiVeg Broth Base

#### Product Code : VM1821

**Application:-** Salt Polymyxin MiVeg Broth Base with added supplement is recommended for the detection and enumeration of *Vibrio* species.

#### Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	10.0
Yeast extract	3.0
Sodium chloride	20.0
Final pH (at 25°C)	8.8 ± 0.2

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

#### Principle & Interpretation

Salt Polymyxin MiVeg Broth Base is prepared by adding vegetables peptones instead of animal based peptones thereby making the medium free from BSE/TSE risks. Salt Polymyxin MiVeg Broth Base is the modification of Salt Polymyxin Broth Base which was formulated as per the recommendation of APHA (1) for detection and enumeration of salt tolerant *Vibrio parahaemolyticus*.

MiVeg hydrolysate and yeast extract supplies nitrogenous compounds, carbon, sulphur, trace elements and vitamin B complex, essential for the growth. Polymyxin B sulphate inhibit gram-positive organisms. High concentration of sodium chloride and alkaline pH selectively favours the growth of *Vibrio* species. For further confirmation, a loopful of enriched medium is subcultured onto TCBS MiVeg Agar (VM1189).

#### Methodology

Suspend 16.5 grams of powder media in 500 ml distilled water. Mix thoroughly and heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add 1 vial of rehydrated contents of Polymyxin B Selective Supplement (MS2003). Mix well and dispense as desired.

#### 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 solution without any precipitate.

##### Reaction

Reaction of 3.3% w/v aqueous solution is pH 8.8 ± 0.2 at 25°C.

##### pH Range

8.6 - 9.0

##### Cultural Response/Characteristics

Cultural characteristics observed with added Polymyxin B Selective Supplement (MS2003) after an incubation at 35-37°C for 24-48 hours.

Organisms (ATCC)	Inoculum	Growth
<i>Vibrio cholerae</i> (14035)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant
<i>Vibrio parahaemolyticus</i> (11344)	10 <sup>2</sup> -10 <sup>3</sup>	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.



VM1821 Salt Polymyxin MiVeg Broth Base

1. Control
2. *Vibrio cholerae*
3. *Vibrio parahaemolyticus*

## Further Reading

1. Vanderzant C. and Splittstoesser D. (Eds.), 1992, Compendium of Methods for the Microbiological Examination of Foods, 3<sup>rd</sup> ed., APHA, Washington, D.C.

S

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents. Do not use the products if it fails to meet specifications for identity and performance parameters.