

## Technical Information

### Wesley MiVeg Broth Base

**Product Code : VM2152**

**Application:-** Wesley MiVeg Broth is recommended as a selective enrichment medium for isolation of *Campylobacter jejuni* from poultry products.

### Composition\*\*

Ingredients	Gms / Litre
MiVeg hydrolysate No. 1	20.0
Yeast extract	2.5
Sodium chloride	5.0
Ferrous sulphate	0.25
Sodium metabisulphite	0.25
Sodium pyruvate	0.25
Bicine	10.0
Agar	1.0

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

### Principle & Interpretation

Wesley MiVeg Broth is prepared by adding MiVeg hydrolysate No.1 in place of Tryptose thereby making the medium BSE/TSE risks free. Wesley MiVeg Broth is the modification of Wesley Broth which is formulated as described by Wesley (1) for selective enrichment of *Campylobacter jejuni* from poultry products. *Campylobacter jejuni* is a causal organism of acute bacterial gastroenteritis in humans due to consumption of animal based foods. *Campylobacter jejuni* is sensitive to normal atmospheric concentration of oxygen and does not grow below 30°C. It survives best in foods held at refrigeration temperature but is highly susceptible to freezing conditions (2, 3) and also sensitive to sodium chloride.

MiVeg hydrolysate No.1 and yeast extract supplies nitrogenous nutrients, vitamin B complex and other essential growth nutrients to the growing organisms. Sodium metabisulphite and ferrous sulphate helps in survival and easy recovery of the organism. Sodium pyruvate added to medium to increase the oxygen tolerance capacity of *Campylobacter jejuni* (4). Small quantity of agar addition helps to create microaerophilic atmosphere. Bicine buffers the medium.

### Methodology

Suspend 39.25 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add rehydrated contents of 1 vial of Campylobacter Selective Supplement (MS2077) and 6.25 ml of cooled alkaline hematin solution. (Dissolve 32.0 mg of bovine hemin in 10 ml of 0.15 N NaOH. Sterilize by autoclaving at 5 lbs pressure (108°C) for 30 minutes.) Mix well before dispensing.

### Quality Control

#### Physical Appearance

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

#### Colour and Clarity of prepared medium

Amber coloured, clear to slightly opalescent solution.



Dehydrated Culture Media  
Bases / Media Supplements

### Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 40°C for 24 hours.

#### Organisms (ATCC)

*Campylobacter jejuni* (29428)

#### Growth

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. Wesley R.D., Swaminathan B. and Stadelman W.J., 1983, Appl. Environ. Microbiol., 46:1097.
2. Christopher F.M., Smith G.C. and Vanderzant C., 1982, J. Food Prot., 45:260.
3. Gill C.O. and Harris L.M., 1984, J. Food Prot., 47:96.
4. George H.A., Hoffman P.S., Smibert R.M. and Krieg N.R., 1978, J. Clin. Microbiol., 8:36.

## 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.



**Central Drug House (P) Ltd.** Corp. Office : 7/28, Vardaan House, Ansari Road, Daryaganj, New Delhi-110002 (INDIA)

Phone : +91-11- 49404040 (100 Lines) Fax : +91-11- 49404050 E-mail : sales@cdhfinechemical.com Website : www.cdhfinechemical.com