

## Technical Information

### King's OF MiVeg Medium Base

**Product Code : VM2235**

**Application:-** King's OF MiVeg Medium Base is used for studying oxidation-fermentation of carbohydrates by *Campylobacter* species.

### Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	0.2
Phenol red	0.003
Agar	0.3
Final pH (at 25°C)	7.4 ± 0.2

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

### Principle & Interpretation

King's OF MiVeg Medium Base is prepared by adding MiVeg hydrolysate in place of Casein enzymic hydrolysate thus making the medium free from BSE/TSE risks. This medium is the modification of King's OF Medium Base which is devised as recommended by APHA (1) for studying the oxidation-fermentation reaction of carbohydrates by *Campylobacter* species.

MiVeg hydrolysate in the medium supplies nitrogenous compounds for the growth of *Campylobacter* species. Phenol red serve as pH indicator of the medium. Oxidation of carbohydrate is indicated by yellow colour formation. The medium will be yellow (acid) when removed from the microaerobic atmosphere due to carbon dioxide (CO<sub>2</sub>) absorption. To read OF reactions, let tubes stand at room temperature until OF control becomes neutral or alkaline,

### Methodology

Suspend 0.5 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 40 - 50°C and aseptically add filter sterilized solution of desired carbohydrate to get a final concentration of 1% and dispense in sterile tubes.

### Quality Control

#### Physical Appearance

Light pink coloured, homogeneous, free flowing powder.

#### Gelling

Semisolid, comparable with 0.03% Agar gel.

#### Colour and Clarity of prepared medium

Red coloured, clear to slightly opalescent semisolid gel forms in tubes as butt.

#### Reaction

Reaction of 0.05% 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 42°C for 24-48 hours in reduced oxygen atmosphere with added Dextrose.

Organisms (ATCC)	Growth	Acid*
<i>Campylobacter jejuni</i> (29428)	good	+

**Key :** + = positive reaction, yellow colour

\* = w/Dextrose



Dehydrated Culture Media  
Bases / Media Supplements

## 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. Vanderzant C and Splittstoesser DF (Eds.), 1992, 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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