

## Technical Information

### C.perfringens Sporulation MiVeg Broth

**Product Code : VM1947**

**Application:-** C.perfringens Sporulation MiVeg Broth is used for promoting sporulation in *Clostridium*

### Composition

Ingredients	Gms / Litre
MiVeg hydrolysate No. 1	15.0
Yeast extract	3.0
Starch, soluble	3.0
Magnesium sulphate	0.1
Sodium thioglycollate	1.0
Disodium phosphate	11.0
Final pH ( at 25°C)	7.8±0.2

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

### Principle & Interpretation

C.perfringens Sporulation MiVeg Broth is prepared by using MiVeg hydrolysate No.1 (vegetable origin) instead of Tryptose (animal origin), thereby making the medium BSE/TSE risks free. This medium is the modification of C. perfringens Sporulation Broth which is formulated as per APHA (1) for enhancing sporulation in *Clostridium perfringens*. MiVeg hydrolysate No.1, yeast extract and starch present in medium supports the growth of *Clostridium perfringens* as well as stimulate spore formation in presence of magnesium sulphate. Sodium thioglycollate in the medium helps to maintain anaerobic condition. Magnesium sulphate and disodium phosphate maintains the buffering conditions in the medium.

### Methodology

Suspend 33.1 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat if necessary to ensure complete solution. Dispense 20 ml amounts in 20 X 150 mm screw capped test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Just before use heat the medium in flowing steam for 20 minutes.

### Quality Control

#### Physical Appearance

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

#### Colour and Clarity of prepared medium

Medium amber coloured, clear to slightly opalescent solution with a slight precipitate.

#### Reaction

Reaction of 3.31 % w/v aqueous solution pH: 7.8 ±0.2 at 25°C

#### pH range

7.6-8.0

#### Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth	Sporulation
<i>Clostridium perfringens</i> (12924)	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 days.



VM1947 *C. perfringens* Sporulation MiVeg Broth

1. Control

2. *Clostridium perfringens*

## Further Reading

1. Vanderzant C and Splittstoesser (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.
- 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
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