

Technical Information

B.Q. Vaccine MiVeg Medium (Thioglycollate Broth w/ MiVeg Extract No. 2)

Product Code :VM1462

Application:- B.Q Vaccine MiVeg Medium (Thioglycollate Broth w/MiVeg Extract No.2) is used for the mass cultivation of anaerobes for vaccine production.

Composition

| Ingredients | Gms / Litre |
|-----------------------|-------------|
| MiVeg peptone | 10.0 |
| MiVeg extract No. 2 | 5.0 |
| MiVeg infusion | 5.0 |
| Sodium thioglycollate | 1.0 |
| Dipotassium phosphate | 4.0 |
| Sodium chloride | 5.0 |
| Final pH (at 25°C) | 8.2±0.2 |

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

B.Q. Vaccine MiVeg Medium (Thioglycollate Broth w/MiVeg Extract No.2) is prepared by using vegetable peptones instead of animal based peptone which are free of BSE/TSE risks. This medium is modification of original Thioglycollate medium (1,2) recommended for the cultivation of anaerobic organisms on large scale. MiVeg peptone and MiVeg infusion makes the medium nutritious. MiVeg peptone supply the nitrogenous compounds and growth factors. MiVeg infusion supplies trace minerals, growth factors and vitamins for the growth of wide variety of organisms. Sodium thioglycollate acts as a reducing agent which lowers the oxidation reduction potential of the medium thereby enabling the obligate anaerobes to multiply. Added glucose, act as the source of energy. Dipotassium phosphate and sodium chloride maintains the buffering action and isotonic conditions respectively in the medium.

Methodology

Suspend 30 grams of powder media in 1000 ml purified/distilled water. Mix thoroughly. Heat if necessary dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C. Aseptically add 0.5% sterile glucose solution. Mix thoroughly.

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.

Reaction

Reaction of 3.0% w/v aqueous solution is pH 8.0± 0.2 at 25°C.

pH range

8.0-8.4

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours

| Organisms (ATCC) | Inoculum (CFU) | Growth |
|--|-----------------|------------------|
| <i>Clostridium perfringens</i> (12924) | 10 ² | good - luxuriant |



Dehydrated Culture Media
Bases / Media Supplements

| | | |
|---------------------------------------|-----------------|------------------|
| <i>Clostridium sporogenes</i> (11437) | 10 ² | good - luxuriant |
| <i>Streptococcus pyogenes</i> (19615) | 10 ² | 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 days.

Further Reading

1. Brewer 1940, J. Am Med. Assoc., 115, 598.
2. Brewer 1940, J. Bact., 39:10.

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.

