Technical Information

Sabouraud Medium, Fluid, MiVeg

Product Code : VM1013

Application:- Sabouraud Medium, Fluid, MiVeg (Fluid Sabouraud MiVeg Medium) is recommended for sterility testing of pharmaceutical preparations, for examination of moulds and lower bacteria.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	5.0
MiVeg peptone	5.0
Dextrose	20.0
Final pH (at 25°C)	5.7 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Fluid Sabouraud MiVeg Medium is prepared by using vegetables peptones in place of animal peptones thus making the medium free from BSE/TSE risks. This medium is the modification of medium described by Sabouraud (1) for the cultivation of moulds, particularly useful for detecting fungi associated with skin infections This medium is recommended for the sterility testing of pharmaceutical preparation. Product to be tested and a positive control is incubated together for 10 days. If the growth is comparable, the product is considered non-fungistatic. If the product is fungistatic, larger ratio of medium to product is used or suitable sterile inactivating agent is added.

MiVeg hydrolysate and MiVeg peptone supplies nitrogenous and carbonaceous compounds. Dextrose serves as carbon and energy source. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens (2). Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination must be carried out inside the safety cabinet.

Methodology

Suspend 30 grams of powder media in 1000ml distilled water. Mix thoroughly. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Light amber coloured, clear solution without any precipitate.

Reaction

Reaction of 3.0% w/v aqueous solution is pH 5.7 ± 0.2 at 25°C.

pH Range

5.5-5.9

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25-30°C for 48 - 72 hours.

Organisms (ATCC)	Growth
Escherichia coli (25922	luxuriant
Lactobacillus casei (9595)	luxuriant
Aspergillus niger (16404)	luxuriant

Candida albicans (10231)	luxuriant
Saccharomyces cerevisiae (9763)	luxuriant

Key: * = incubated at 35 – 37^{0}C

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: 2-8^0 in sealable plastic bags for 2-5 day.

Further Reading

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
2. Murray P R, Baren E J, Pfaller M A, Yolken R H (editors) 2003, Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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