Sabouraud Dextrose HiVeg™ Broth (Sabouraud Liquid HiVeg™ Medium), Granulated

GMV033

Sabouraud Dextrose HiVeg™ Broth, granulated is used for cultivation of yeasts, moulds and aciduric microorganisms.

Composition**

Ingredients	Gms / Litre
Dextrose	20.000
HiVeg special peptone	10.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 30 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Sabouraud Dextrose HiVeg Broth is prepared by using HiVeg special peptone in place of Peptone special which is free of BSE/ TSE risks. It is the modification of Dextrose Agar described by Sabouraud (1). The medium is recommended by APHA for the cultivation of fungi, particularly associated with skin infections(2). Sabouraud dextrose media are peptone media supplemented with dextrose to support the growth of fungi. HiVeg special peptone provides nitrogen, vitamins, minerals, amino acids and growth factors essential for the growth of fungi. Dextrose acts as the energy source. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens(3). The acid reaction of the final medium is inhibitory to a large number of bacteria making it particularly useful for cultivating fungi and aciduric microorganisms. For isolation of fungi from contaminated specimens, a selective medium should be inoculated simultaneously. Incubate cultures for 4 to 6 weeks before reporting as negative.

Quality Control

Appearance
Cream to yellow coloured granular medium

Colour and Clarity of prepared medium
Light amber Clear solution

Reaction
Reaction of 3.0% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH
5.40-5.80

Cultural Response
Cultural characteristics observed after an incubation at 25-30°C for 3 days.

Cultural Response

Organism	Inoculum (CFU)	Growth
Cultural Response		
**Aspergillus brasiliensis ATCC 16404*	50-100	Luxuriant
Candida albicans ATCC 10231	50-100	Luxuriant
Candida albicans ATCC 2091	50-100	luxuriant
Escherichia coli ATCC 25922	50-100	good-luxuriant (inhibited on media with lower pH)

Escherichia coli NCTC 9002	50-100	Luxuriant
Escherichia coli ATCC 8739	50-100	good-luxuriant (inhibited on media with lower pH)
Saccharomyces cerevisiae ATCC 2601	50-100	good-luxuriant
Saccharomyces cerevisiae ATCC 9763	50-100	good-luxuriant
Lactobacillus casei ATCC 334	50-100	good-luxuriant (inhibited on media with lower pH)

* Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1.Sabouraud, R. 1892. Ann. Dermatol. Syphil., 3.
2.Downes, F.P. and Ito, K. 2001. Methods For The Microbiological Examination of Foods. APHA, Food 4 ed. Washington, D.C.
3. Murray P. R, Baron E, J., Jorgensen J. H., Pfaller M. A., Yolken R. H., (Eds.), 2007, Manual of Clinical Microbiology, 9th Ed., ASM, Washington, D.C

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