Technical Information

Casitone Glycerol Yeast Autolysate MiVeg Broth Base

Product Code : VM1381

Application:- Casitone Glycerol Yeast Autolysate MiVeg Broth Base is used as a maintenance medium for Iron bacteria, especially those belonging to the *Sphaerotilus-Leptothrix* group.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	5.0
Yeast autolysate	1.0

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Casitone Glycerol Yeast Autolysate MiVeg Broth Base is prepared by using MiVeg hydrolysate instead of Casein enzymic hydrolysate thereby making the medium free from BSE/ TSE risks. This medium is the modification of CGY Broth Base which is formulated in accordance with APHA (1). It supports the growth of Iron bacteria especially those belonging to the *Sphaerotilus-Leptothrix* group but not the more rapidly growing organisms. BOD-lactate broth is used as a partially selective medium for *Sphaerotilus* (2). Pure cultures are isolated from BOD-lactate broth by picking a filament and streaking on 0.05% MiVeg extract No. 1 agar. After 24 hours incubation at 25°C, the typical curling filaments are transferred to CGY MiVeg Broth which functions as a good maintenance medium. If a pellicle with no underlying turbidity develops in 2 to 3 days, filament is transferred to the slant of this medium. In addition alfalfa straw or pea straw may also be used for enrichments.

Methodology

Suspend 6 grams of powder media in 1000 ml distilled water containing 10 ml glycerol. Mix thoroughly. Heat if necessary to dissolve the medium completely. Dispense into test tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired 1.5% agar may be added to make Agar plate of this medium.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Light yellow coloured, clear solution without anyprecipitate.

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth
Sphaerotilus natans (13338)	10^2-10^3	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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Eaton A.D., Clesceri L.S. and Greenberg A.E., (Eds.), 2005, Standard Methods for the Examination of Water and Wastewater, 21st ed., APHA, Washington, DC
2. Armbuster E.H., 1969, Appl. Microbiol., 17:320.

Disclaimer :

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