

Technical Information

Wort MiVeg Broth

Product Code : VM1333

Application:- Wort MiVeg Broth is used for the cultivation and enumeration of yeasts.

Composition**

Ingredients	Gms / Litre
Malt extract	15.00
MiVeg peptone	0.78
Maltose	12.75
Dextrin	2.75
Dipotassium phosphate	1.00
Ammonium chloride	1.00
Final pH (at 25°C)	4.8 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Wort MiVeg Broth is prepared by adding MiVeg peptone in place of Peptic digest of animal tissue thereby making the medium BSE/TSE risks free. Wort MiVeg Broth is the modification of Wort Broth which was formulated as described by Parfitt (1) for the cultivation and enumeration of fungi especially yeasts in syrups and butter. Yeast grows well in culture media containing dextrose or maltose in acidic environment.

MiVeg peptone and malt extract supplies nitrogenous compound and certain other essential growth nutrients. Dextrin and maltose are fermentable carbohydrates. Glycerol serve as an of energy source and promotes growth of yeasts. Acidic pH of the medium inhibits many bacteria.

Methodology

Suspend 33.28 grams of powder media in 1000 ml distilled water containing 2.35 grams of glycerol. Mix thoroughly and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Yellow coloured, opalescent gel forms in petri plates, clear solution in tubes, may contain a flocculent precipitate.

Reaction

Reaction of 3.33 % w/v aqueous solution is pH 4.8 ± 0.2 at 25°C.

pH Range

4.6-5.0

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 30°C for for 40-48 hours.

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	Luxuriant
<i>Saccharomyces cerevisiae</i> (9763)	Luxuriant
<i>Saccharomyces uvarum</i> (9080)	Luxuriant
<i>Candida albicans</i> (10231)	Luxuriant



Dehydrated Culture Media
Bases / Media Supplements

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 day.

Further Reading

1. Parfitt, 1933., J. Dairy Sci., 19 : 141.

2. Macfaddin J. 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol.1. Williams and Wilkins, Baltimore.

Disclaimer :

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