

Technical Information

Tryptone Yeast Extract MiVeg Broth

Product Code : VM1356

Application:- Tryptone Yeast Extract MiVeg Broth is used as a general purpose enrichment medium for cultivation of not particularly fastidious microorganisms.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	5.0
Yeast extract powder	3.0
Final pH (at 25°C)	7.0±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Tryptone Yeast Extract MiVeg Broth is prepared by adding MiVeg hydrolysate in place of animal based peptone thus making the medium free from BSE/TSE. Tryptone Yeast Extract MiVeg Broth is the modification of Tryptone Yeast Extract Broth which was formulated as per International Streptomyces Project (1).

MiVeg hydrolysate and yeast extract supplies necessary nitrogenous compounds, vitamin B complex and other essential growth nutrients. Tryptone Yeast Extract MiVeg Broth with added carbohydrate and a pH indicator, can be used for fermentation studies.

Methodology

Suspend 8 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Dispense as desired.

Quality Control

Physical Appearance

Light yellow to yellow coloured, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Light amber coloured, clear solution in tubes.

Reaction

Reaction of 0.8% w/v aqueous solution is pH 7.0 ± 0.2 at 25°C.

pH Range

6.8 - 7.2

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organisms (ATCC)	Growth
<i>Escherichia coli</i> (25922)	luxuriant
<i>Staphylococcus aureus</i> (25923)	luxuriant
<i>Streptomyces albus</i> (3004)	luxuriant
<i>Streptomyces lavendulae</i> (8664)	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. Shirling E.B. and Gotlieb D., 1966, International J. Systemic Bact, 16 : 3.

Disclaimer :

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