Technical Information

Antibiotic MiVeg Assay Medium No.40

Product Code : VM2143

Application:- Antibiotic MiVeg Assay Medium No.40 is recommended for the microbiological assay of Thiostrepton using *Enterococcus hirae*

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	2.500
MiVeg peptone	2.500
Yeast extract	20.000
Dextrose	10.000
Potassium dihydrogen phosphate	2.000
Polysorbate 80	0.100
Agar	10.000
Final pH (at 25°C)	6.7±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Antibiotic MiVeg Assay Medium No. 40 is prepared by vegetable peptones instead of animal peptones, thus the medium becomes BSE-TSE risks free. This can serve the same purpose of Antibiotic MiVeg Medium No. 40. This medium can be used as a maintenance medium for test organism *Enterococcus hirae* ATCC 10541 (*Streptococcus faecium*) used for the assay of Thiostrepton. Equivalent animal based medium is in accordance with USP (1). Essential amino acids, mineral and growth factors are provided by MiVeg Peptone, MiVeg hydrolysate and yeast extract in this medium. Dextrose serve the carbon and energy source for enhancing the growth of test organism. Good buffering action is maintained by phosphates in the medium during maintenance of the test organism. Incorporation of polysorbates reduces the surface tension, maintaining uniform suspension of cells and also can neutralize phenolic compounds in the test sample, if any.

Methodology

Suspend 47.1 grams of powder media in 1000 ml purified/distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.0% Agar gel.

Colour and Clarity of prepared medium

Light amber clear to slightly opalescent gel forms in petriplates

Reaction

Reaction of 4.71 % w/v aqueous solution at 25°C pH: 6.7±0.2

pH range

6.50-6.90

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth	Serial dilution with
Enterococcus hirae ATCC10541	50-100	luxuriant	Thiostrepton

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. United States Pharmacopoeia 2011,USP 34/NF 29, US Pharmacopoeial Convention, Inc., Rockville, MD.

Disclaimer :

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