



Thiomersal Assay Medium

M1455

Thiomersal Assay Medium is recommended for microbiological assay of thiomersal as per I.P.

Composition**

Ingredients	Gms / Litre
Beef extract	3.000
Casein enzymic hydrolysate	10.000
Yeast extract	1.500
Sodium chloride	3.000
Sucrose	1.000
Agar	15.000
Final pH (at 25°C)	7.5±0.1

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 33.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. Mix well and pour in sterile Petri plates.

Principle And Interpretation

Thiomersal Assay Medium is used for microbiological assay of thiomersal using *Micrococcus flavus* as the test organism (1).

Test procedure : Growth of 18-24 hours old culture is emulsified in 10 ml of sterile normal saline. Add 1.5 ml of the inoculum to 150 ml of the medium cooled to 45-50°C. Mix well and pour into Petri plates. to a depth of 3-4 mm. Cool the medium . The assay is carried out by cylinder plate or cup plate method. incubating the plates at 30°C for 18-24 hours (1).

Casein enzymic hydrolysate, beef extract and yeast extract provides nitrogenous and other essential growth nutrients. Sodium chloride maintains osmotic balance of the medium. Sucrose is the source of carbon.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Amber coloured clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 3.35% w/v aqueous solution at 25°C. pH : 7.5±0.1

pH

7.40-7.60

Cultural Response

M1455: Cultural characteristics observed after an incubation at 30°C for 18 - 24 hours.

Organism

Growth

Cultural Response

Micrococcus flavus ATCC luxuriant

10240

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.Indian pharmacopoeia,2010, Ministry of Health and Family Welfare, Govt. of India.

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