



Garrod Actinomyces Medium

M476

Garrod Actinomyces Medium is used for cultivation of pathogenic anaerobic species, *Actinomyces israeli* and *Actinomyces bovis* .

Composition**

Ingredients	Gms / Litre
Beef extract	3.000
Sodium chloride	5.000
Peptic digest of animal tissue	10.000
Starch, soluble	1.000
Agar	20.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 39.0 grams in 1000 ml distilled water. Heat to boiling dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle And Interpretation

Garrod Actinomyces medium is recommended for cultivation of pathogenic anaerobic species *Actinomyces israeli* and *Actinomyces bovis* . For primary isolation and maintenance of Actinomycetes, organically complex media are recommended (1) Peptic digest of animal tissue, beef extract and soluble starch provide all necessary nutrients for growth of actinomycete species. Sodium chloride maintains osmotic balance. Inoculate plates with 1 drop of diluted culture or specimen and spread over the surface of the plate. Incubate at 35-37°C for 24-48 hours and examine plates for growth upto 7 days in the form of small white colonies.

Quality Control

Appearance

Cream to yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 2.0% agar gel.

Colour and Clarity of prepared medium

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

Cultural Response

M476: Cultural characteristics observed after an incubation at 35-37°C for 48-72 hours.

Organism	Growth
Cultural Response	
<i>Actinomyces bovis</i> ATCC 13683	luxuriant
<i>Actinomyces israelii</i> ATCC 10049	luxuriant

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.The Prokaryotes, 2nd edn. Volume I, Balows A Truper HG, Dwarkin M, Harder W and Schleifer KH (editors), Pg:850-905, Springer-Verlag, New York.

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Technical Data

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