



## Garrod Actinomyces Medium

M476

### Intended Use:

This media is recommended for cultivation of pathogenic anaerobic species, *Actinomyces israeli* and *Actinomyces bovis* from clinical samples.

### Composition\*\*

Ingredients	g / L
HM peptone B #	3.000
Sodium chloride	5.000
Peptone	10.000
Starch, soluble	1.000
Agar	20.000

\*\*Formula adjusted, standardized to suit performance parameters

# Equivalent to Beef extract

### Directions

Suspend 39.0 grams in 1000 ml purified/distilled water. Heat to boiling dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates or 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 *Actinomyces*, organically complex media are recommended (1).

Peptone, HM peptone B 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.

### Type of specimen

Clinical samples - Skin samples

### Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,3). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions :

In Vitro diagnostic Use only. For professional use only. Read the label before opening the container. Wear protective gloves/ protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations :

1. This medium is general purpose medium and may not support the growth of fastidious organisms.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### 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

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

#### Organism

#### Growth

*Actinomyces bovis* ATCC 13683 luxuriant

*Actinomyces israelii* ATCC 10049 luxuriant

### Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 20-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

### Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,3).

### 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.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Editio
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manu of Clinical Microbiology, 11th Edition. Vol. 1.

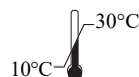
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**Do not use if  
package is damaged**

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