



## Streptomyces Agar

M1352

Streptomyces Agar is recommended for the cultivation and maintenance of *Streptomyces* .

### Composition\*\*

Ingredients	Gms / Litre
Malt extract	10.000
Yeast extract	4.000
Dextrose	4.000
Calcium carbonate	2.000
Agar	12.000

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

### Directions

Suspend 32.00 grams in 1000 ml distilled water. Heat just to boiling . Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Note: Due to presence of calcium carbonate, the prepared medium (M1352) forms opalescent solution with white precipitate.

### Principle And Interpretation

*Streptomyces* i.e. aerobic Actinomycetes usually inhabit soil. In humans, the infections are limited to actinomycotic mycetoma. Streptomyces Agar is used for the cultivation and maintenance of *Streptomyces* (1).

Malt extract provides acidic environment and nutrients required for metabolism. Yeast extract, dextrose provide essential nutrients for the growth of *Actinomycetes* . Calcium carbonate is the source of essential cations for growth. Though many carbon sources have been used for the growth of *S. kanamycetus* , glucose (dextrose) is found to be the most suitable carbon source for the production of an antibiotic from *S. kanamyceticus* (2).

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Gelling

Firm, comparable with 1.2% Agar gel.

#### Colour and Clarity of prepared medium

Yellow coloured opalescent gel forms in Petri plates

#### Cultural Response

M1352: Cultural characteristics observed after an incubation at 25-30°C for 5 days.

#### Organism

#### Growth

*Streptomyces kanamyceticus* luxuriant

ATCC 12853

*Streptomyces lavendulae* luxuriant

ATCC 8664

## 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. Atlas R. M., 1993, Handbook of Microbiological Media, Parks, L.C., (Ed.), CRC Press, Boca Raton.
2. Rodney A., Shukla A. and Majumdar, African Journal of Biotechnology Vol. 4 (9), 909-910, 2005.

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