

TECHNICAL DATA SHEET

GYM Streptomyces Medium

Principle

GYM streptomyces medium is used for the isolation and cultivation of Streptomyces species. Media composed of glucose, yeast extract, malt extract, calcium carbonate, and agar. Glucose serves as the carbon and energy source. Yeast extract and malt extract provide ample amounts of the carbon and nitrogen essential and non-essential amino acids, along with the vitamins and trace minerals. Calcium carbonate helps in buffering the medium to maintain the pH. Agar is a solidifying agent.

Use: An agar-based medium for cultivating and isolating Streptomyces species.

Contents*

Ingredients	Gram/Liter
Glucose	4.000
Yeast extract	4.000
Malt extract	10.000
Calcium carbonate (CaCO ₃)	2.000
Agar	20.000

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 40.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically in desired. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Clinical and non-clinical samples.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Beige colored free flowing, homogeneous powder
Reaction of 4.0% solution	7.2 $\pm$ 0.2 at 25 °C
pH	7.00- 7.40
Gelling	Firm comparable with 2.0% agar gel
Color and clarity of ready medium	Pale yellow colored opalescent gel
Growth Promotion properties	Best at $\leq$ 100 CFU at 30 $\pm$ 2°C for 7-14 days
Indicative properties	Optimum at $\leq$ 100 CFU at 30 $\pm$ 2.0°C for 5-10 days
Negative control	Performed using sterile distilled water

Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate the plates at 30 $\pm$ 2°C for 7-14 days

Organism	ATCC	Inoculum (CFU)	Growth
<i>Streptomyces kanamyceticus</i>	12853	50-100	Luxuriant

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

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Reference

1. Medium no 65, DSMZ GYM Streptomyces Medium
(https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium65.)

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