

TECHNICAL DATA SHEET

Glucose Asparagine Agar

Principle

The glucose Asparagine agar developed by KRAINSKY for cultivation and Streptomyces. GAA consists of glucose, asparagine, dipotassium phosphate and agar. Glucose is the fermentable carbohydrate providing carbon and energy; dipotassium phosphate buffers the medium and agar is the solidifying agent. *Streptomyces* grows in pale yellowish or pale brownish yellow with white aerial mycelium.

Use: For the cultivation of Streptomyces species.

Contents*

Ingredients	Gram/Litre
Glucose	10.000
L-Asparagine	0.500
Dipotassium phosphate	0.500
Agar	15.00
Final pH at 25°C	7.0 ± 0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 21.00 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. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Food and dairy samples and water samples, pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

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	Light beige colored free flowing, homogeneous powder
Reaction of 2.1% solution	7.3 $\pm$ 0.2 at 25°C
pH	7.10 - 7.50
Gelling	Firm comparable with 1.5 % agar gel
Color and clarity of ready medium	Light yellowish to creamy colored opalescent
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-48 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Acid production
<i>Streptomyces lavendulae</i>	19247	Luxuriant	Pale yellowish or pale brownish yellow growth. White aerial mycelium.

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

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