



Yeast Glucose Extract Agar (Chloramphenicol)

RDM-YA-02

Principle

Yeast glucose extract agar (Chloramphenicol) is composed of yeast extract, glucose, chloramphenicol and agar. Yeast extract source of nitrogenous compounds, vitamin B complex and other growth nutrients. Glucose is fermentable sugar. Chloramphenicol inhibits bacterial growth. Agar is solidifying agent. The media is used for enumeration of yeast and molds in milk and milk products.

Use: Recommended for plate count of microorganisms in water.

Contents*

Ingredients	Gram/Litre
Yeast Extract	5.00
Glucose	20.00
Chloramphenicol	0.10
Agar	15.00
pH at 25 °C	6.6 ±0.2

* Formula adjusted for optimum performance and parameters

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

Specimens types analyzed

Milk and milk products and dairy samples etc.

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.

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 4.00 % solution	6.6 ±0.2 at 25 °C
pH	6.40- 6.80
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Light amber colored slightly opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

For fungi cultural characteristics observed after an incubation at 25-30°C for 2-7 days. For bacteria cultural characteristics are observed after an incubation at 35-37°C for 18-24 hours

Organism	ATCC	Inoculum	Growth	Recovery	Incubation
<i>Aspergillus brasiliensis</i> (ATCC 16404)	16404	50-100	Luxurious	60-70%	25-30°C for 2-7 days
<i>Candida albicans</i> (ATCC 10231)	10231	50-100	Luxurious	60-70%	25-30°C for 2-7 days
<i>Escherichia coli</i> (ATCC 8739)	8739	50-100	Inhibited	---	35-37°C for 18-24 hours
<i>Staphylococcus aureus</i> (ATCC 25923)	25923	50-100	Inhibited	--	35-37°C for 18-24 hours

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

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.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. Marshall, (Ed), (1993), *Standard Methods for Examination of Dairy Products*, 16th Ed., American Public Health Association, Washington, D. C.

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