

Nutrient Agar - Instructions for Use

Intended Use

BACGro™ Nutrient Agar, when prepared as directed, is intended for laboratory use as a general purpose, non-selective growth media for a wide variety of non-fastidious microorganisms. It is not intended for use in diagnosis, treatment, or prevention of disease in humans.

Product Summary

Nutrient Agar is general purpose, non-selective growth media that supports growth of many non-fastidious microorganisms. Peptone and beef extract provide a source of nitrogen and carbon to satisfy growth requirements. Agar is used as a solidifying agent.

Formulation (per Liter)*

Peptone	5.0 g
Yeast Extract	3.0 g
Agar	15.0 g
Total	23.0 g/L

*Formula may be supplemented and/or adjusted as required to meet performance criteria

Directions

1. Add 23 g of Nutrient Agar powder to 1 L of deionized water.
2. Stir while heating. Bring to a soft boil to completely dissolve.
3. Autoclave at 121°C for 15 minutes.
4. Cool to approximately 50°C to use.

Precautions

This product is for laboratory use only and should only be used by qualified, trained laboratory personnel. Personnel should always use proper aseptic technique and observe all biohazardous precautions. All microbiological cultures should be presumed to be infectious.

Avoid ingestion, inhalation, or contact with skin and mucous membranes. If contact occurs, flush the area with clean water.

Quality Control Specifications

Gold Standard Diagnostics tests each lot of manufactured BACGro™ culture media utilizing appropriate control organisms and specifications as documented on the Certificate of Analysis. End users should perform quality control testing in accordance with government regulatory requirements and accreditation guidelines. The following specifications are routinely used for testing:

Appearance (dehydrated): Medium tan, free flowing, homogenous.

Appearance (prepared): Light to medium amber, clear, free of precipitate.

pH (prepared): 6.6 – 7.0 at 25°C

Organism Performance:

Strain ID	Inoculum	Incubation			Result
		Time	Temp.	Environment	
<i>E. coli</i> (ATCC® 8739)	≤100 CFU	22 - 26 hr.	37° C	Aerobic	Growth
<i>E. coli</i> (ATCC® 25922)	≤100 CFU	22 - 26 hr.	37° C	Aerobic	Growth
<i>S. Typhimurium</i> (ATCC® 14028)	≤100 CFU	22 - 26 hr.	37° C	Aerobic	Growth
<i>S. Enterica</i> (ATCC® 13076)	≤100 CFU	22 - 26 hr.	37° C	Aerobic	Growth
<i>Y. enterocolitica</i> (ATCC® 9610)	≤100 CFU	22 - 26 hr.	30° C	Aerobic	Growth
<i>Y. enterocolitica</i> (ATCC® 23715)	≤100 CFU	22 - 26 hr.	30° C	Aerobic	Growth

Limitations of the Procedure

This product is not labeled for use as a medical device, and is not intended to diagnose, treat, or prevent disease.

Due to variation in nutritional requirements, some species or strains may be encountered that grow poorly in this medium.

Further biochemical or serological testing is required for the identification of organisms grown in this medium.

Storage and Expiration

BACGro™ Nutrient Agar should be stored at 2 – 30 degrees Celsius. Because of the hygroscopic nature of dehydrated culture media, it should be stored in a dry place and the lid should remain tightly sealed. Media should be discarded if it is not free flowing or shows discoloration.

The expiration date printed on the label is applicable to media stored as directed.

Catalog Numbers

DCM6101 – Nutrient Agar, 500g

DCM6105 – Nutrient Agar, 5 kg

DCM6110 – Nutrient Agar, 10 kg

Revision History:

Revision	Description	Effective Date
01	Document creation	14-MAR-2024