

Nutrient Broth - Instructions for Use

Intended Use

BACGro™ Nutrient Broth, 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 broth is general purpose, non-selective growth media that supports growth of many non-fastidious microorganisms. Enzymatic digest of casein and beef extract provide a source of nitrogen and carbon to satisfy growth requirements.

Formulation (per Liter)*

Peptone	5.0 g
Beef Extract	3.0 g
Total	8.0 g/L

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

Directions

1. Add 8 g of Nutrient Broth powder to 1 L of deionized water.
2. Stir to dissolve completely.
3. Autoclave at 121°C for 15 minutes.
4. Cool prior 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, Turbid
<i>E. coli</i> (ATCC® 25922)	≤100 CFU	22 - 26 hr.	37° C	Aerobic	Growth, Turbid
<i>S. enterica ser.</i> Typhimurium (ATCC® 14028)	≤100 CFU	22 - 26 hr.	37° C	Aerobic	Growth, Turbid
<i>S. enterica ser.</i> Enteritidis (ATCC® 13076)	≤100 CFU	22 - 26 hr.	37° C	Aerobic	Growth, Turbid
<i>Y. enterocolitica</i> (ATCC® 9610)	≤100 CFU	22 - 26 hr.	30° C	Aerobic	Growth, Turbid
<i>Y. enterocolitica</i> (ATCC® 23715)	≤100 CFU	22 - 26 hr.	30° C	Aerobic	Growth, Turbid

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 Broth 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

DCM6001 – Nutrient Broth, 500g

DCM6005 – Nutrient Broth, 5 kg

DCM6010 – Nutrient Broth, 10 kg

Revision History:

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