

Brain Heart Infusion Broth - Instructions for Use

Intended Use

BACGro™ Brain Heart Infusion (BHI) Broth is a general-purpose media used to cultivate a variety of fastidious and non-fastidious organisms from food and environmental samples.

Product Summary

Brain Heart Infusion Broth is used to cultivate fastidious organisms, yeasts, molds, aerobes and anaerobes (anaerobe culture is enhanced by the addition of agar to restrict oxygen diffusion). BHI is a nutritious buffered broth that contains infusions of brain and heart tissues, along with peptones, to provide proper nutrients and aid in the growth of fastidious organisms. Sodium chloride maintains osmotic balance. Dextrose provides an adequate carbohydrate source for successful culture. Disodium phosphate acts as a buffering agent to maintain pH stability.

Formulation (per Liter)*

Brain Heart Infusion†	17.5 g/L
Gelatin Peptone	10.0 g/L
Dextrose	2.0 g/L
Sodium Chloride	5.0 g/L
<u>Disodium Phosphate</u>	<u>2.5 g/L</u>
Total	37 g/L

†Equivalent to infusions from 200g of calf brain and 250g of beef heart

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

Directions

1. Add 37.0 g of Brain Heart Infusion Broth powder to 1L purified water.
2. Stir to dissolve completely.
3. Autoclave at 121° Celsius 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

Eurofins Technologies 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): Light beige, homogenous, free flowing powder, free of debris.

Appearance (prepared): Clear, with or without precipitate, no debris.

pH (prepared): 7.2 – 7.6 at 25°C

Organism Performance:

Strain ID			
	Time	Temp.	Result
<i>Escherichia coli</i> (ATCC® 25922)	22 – 26 hr.	37 ±1 ° C	Growth
<i>Staphylococcus aureus</i> (ATCC® 25923)	22 – 26 hr.	37 ±1 ° C	Growth
<i>Salmonella enterica ser. Enteritidis</i> (ATCC® 13076)	22 – 26 hr.	37 ±1 ° C	Growth
<i>Salmonella enterica ser. Typhimurium</i> (ATCC® 14028)	22 – 26 hr.	37 ±1 ° C	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 strains may be encountered that grow poorly in this medium.

High concentrations of residues of antiseptic agents may invoke a false “no growth” result.

Storage and Expiration

BACGro™ Brain Heart Infusion Broth must be stored at 2 – 30°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

DCM5601 – Brain-Heart Infusion Broth, 500g

Revision History:

Revision	Description	Effective Date
03	Updating verbiage of chemical component in formulation	17-AUG-2023
02	Periodic review. No changes required.	07-MAR-2023
01	Document creation	22-MAY-2020