

Technical Data Sheet

GranuCult™

BHI (Brain Heart Infusion) Broth

acc. ISO 6888

Ordering number: 1.10493.0500

For the cultivation of various fastidious bacteria and for the cultivation of staphylococci for the plasma coagulase test.

This culture medium complies with the specifications given by EN ISO 6888 and APHA.

Mode of Action

This culture medium is highly nutritious and buffered to support the growth of fastidious and nonfastidious microorganism, including aerobic and anaerobic bacteria.

Brain heart broth is especially suited for the cultivation of staphylococci for the plasma coagulase test acc. to EN ISO 6888.

The growth of anaerobic or microaerophilic bacteria is considerably improved by adding small quantities of agar-agar (approx. 0.05-0.2 %; article number 1.01614.1000) before autoclaving to the broth.

Typical Composition

Specified by ISO 6888		GranuCult™ BHI (Brain Heart Infusion) Broth acc. ISO 6888	
Enzymatic Digest of Animal Tissues	10 g/l	Nutrient Substrate (Enzymatic Digest of Animal Tissue, Brain-Heart Extract)	27.5 g/l
Dehydrated Calf Brain Infusion	12.5 g/l		
Dehydrated Beef Heart Infusion	5 g/l		
Glucose	2 g/l	D(+)-Glucose	2 g/l
NaCl	5 g/l	NaCl	5 g/l
Na ₂ HPO ₄ , anhydrous	2.5 g/l	Na ₂ HPO ₄ , anhydrous	2.5 g/l
Water	1000 ml/l	Water	n/a
pH at 25 °C	7.4 ± 0.2	pH at 25 °C	7.4 ± 0.2

Preparation

Dissolve 37 g in 1 l of purified water. Dispense into smaller vessels and autoclave 15 min at 121 °C. The broth is clear and brown. The pH value at 25 °C is in the range of 7.2-7.6.

Experimental Procedure and Evaluation

Depend on the purpose for which the medium is used.

Storage

Store at +15 °C to +25 °C, dry and tightly closed. Do not use clumped or discolored medium. Protect from UV light (including sun light). For *in vitro* use only.

Quality Control

Function	Control strains	Incubation	Method of control	Expected results
Productivity	<i>Staphylococcus aureus</i> ATCC® 25923	22-26 h at 36-38 °C aerobic	Qualitative	Growth good to very good
	<i>Streptococcus pneumoniae</i> ATCC® 6305			
	<i>Streptococcus pyogenes</i> ATCC® 19615			
	<i>Pseudomonas aeruginosa</i> ATCC® 27853	40-48 h at 36-38 °C aerobic		
	<i>Candida albicans</i> ATCC® 60193			
	<i>Bacteroides fragilis</i> ATCC® 25285	40-48 h at 36-38 °C anaerobic		
	<i>Haemophilus influenzae</i> ATCC® 10211	40-48 h at 36-38 °C microaerophilic and with addition of X+V-factor		

Please refer to the actual batch related Certificate of Analysis.

The performance test is in accordance with the current version of EN ISO 11133.

Literature

APHA (2012): Standard Methods for the Examination of Water. 22nd ed. American Public Health Association, American Water Works Association, Water Environment Federation, Washington, D.C.

ISO International Standardisation Organisation. Microbiology of food and animal feeding stuffs -- Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) - Part 1: Technique using Baird-Parker agar medium. EN ISO 6888-1:1999.

ISO International Standardisation Organisation. Microbiology of food and animal feeding stuffs -- Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) - Part 3: Detection and MPN technique for low numbers. EN ISO 6888-3:2003.

ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.

Ordering Information

Product	Cat. No.	Pack size
GranuCult™ BHI (Brain Heart Infusion) Broth acc. ISO 6888	1.10493.0500	500 g
Agar-Agar, granulated, purified and free from inhibitors for microbiology	1.01614.1000	1 kg

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