

Product Specification

Product Name: Brain Heart Infusion (BHI) Broth
Product Code: SG7050

Product Description:

Brain Heart Infusion broth is useful for cultivating a wide variety of microorganisms since it is a highly nutritious medium, recommended for the cultivation of *Streptococci*, *Neisseria* and other fastidious organisms. It is also used to prepare the medium for antimicrobial susceptibility testing. Peptone and infusions (calf brain and beef heart) serve as sources of carbon, nitrogen, essential growth factors, amino acids and vitamins. Dextrose serves as a source of energy. Disodium phosphate helps in maintaining the buffering action of the medium whereas sodium chloride maintains the osmotic equilibrium of the medium.

Use:

Stir to suspend 37.0g of dehydrated medium in 1L distilled H₂O. Mix well with heat with frequent agitation. Boil for one minute. Autoclave for 15 minutes at 121°C to sterilize. Allow to cool (40 – 45°C) before making additions, such as antibiotics (if desired), before dispensing. For laboratory use only.

Components:

Peptic Digest of Animal Tissue – 10.0g/L
Calf Brain, Infusion (Solids) – 12.5g/L
Beef Heart, Infusion (Solids) – 5.0g/L
Sodium chloride – 5.0g/L
Dextrose – 2.0g/L
Disodium Phosphate – 2.5g/L

Adjusted to pH 7.4±0.2 @25°C

Test Items	Specifications
<u>Physical and Chemical Tests</u>	
Appearance (dry)	Yellowish Powder
Appearance (in medium)	Yellowish Solution
<u>Microbiological Tests</u>	
<i>Escherichia coli</i> (ATCC 25922)	10 – 100 CFU
<i>Staphylococcus aureus</i> (ATCC 6538)	10 – 100 CFU
<i>Streptococcus pneumoniae</i> (ATCC 6305)	10 – 100 CFU
<i>Salmonella typhimurium</i> (ATCC 14028)	10 – 100 CFU
<i>Streptococcus pyogenes</i> (ATCC 19615)	10 – 100 CFU

* The microbiological test results were obtained from type cultures after incubation at a temperature of $36\pm 1^{\circ}\text{C}$ and observed after 18 - 24 hours.

Storage: 18 – 25°C (dehydrated medium), 2 – 8°C (prepared medium, avoid direct light contact)