

# BRAIN HEART INFUSION BROTH W/ %6,5 NACL (5 ML)

**INTENDED USE:**

Brain Heart Infusion Broth with 6.5 % NaCl is recommended for use in qualitative procedures to differentiate enterococcus species from nonenterococcal group D streptococci.

**PRINCIPLE AND INTERPRETATION:**

Brain Heart Infusion Medium is useful for cultivating a wide variety of microorganisms since it is a highly nutritive medium. Brain Heart Infusion Broth is a modification of the original formulation of Rosenow, where he added pieces of brain tissues to dextrose broth. Brain Heart Infusion Broth with 6.5 % NaCl is employed for the selective cultivation of salt tolerant microorganisms. High concentration of sodium chloride acts as a differential and/or selective agent by interfering with membrane permeability and osmotic and electro kinetic equilibrium in salt intolerant organisms. Proteose 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.

**COMPOSITION:**

Ingredients	Gr/Liter
Calf brain, infusion from	200 gr
Beef heart, infusion from	250 gr
Proteose peptone	10 gr
Dextrose	2 gr
Sodium chloride	65 gr
Disodium phosphate	2,5 gr

\*\*\*Formula adjusted, standardized to suit performance parameters

pH: 7,4 ± 0,2

**PRECAUTIONS:**

For professional use only. Do not use tubes if they show evidence of microbial contamination, discoloration or other signs of deterioration.

**TEST PROCEDURE:**

Incubation at a temperature of 35±2°C and observed after 24-72 hours.

**QUALITY CONTROL:****1.Sterility Control:**

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH

**2.Physical/Chemical Control**

pH: 7,4 ± 0,2

Apperance: Straw coloured solution.

**3.Microbiological Control:** Incubation at a temperature of 35±2°C and observed after 24-72 hours.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Escherichia coli ATCC 25922	10-100	Good	Good
Staphylococcus aureus ATCC 25923	10-100	Good	Good
Salmonella typhimurium ATCC 14028	10-100	Good	Good

**STORAGE CONDITIONS AND SHELF LIFE:**

Store the prepared medium at 2 - 12°C. Use before expiry date on the label..Do not use beyond stated expiry date.

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## DISPOSAL:

Incubated medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected tube should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

## PACKAGING:

**Katalog Number:** 01082

**Content/Packaging:** 50 Tubes/Box

## REFERENCES:

1. Rosenow, Dental Research, 1, 205 (1919)



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature  
Limitation



Do not reuse



Contains sufficient  
for <n> tests



Look at user manual



Manufacturer