



BHI Powder

RM188

It is highly nutritious and is employed in number of media for cultivation of highly fastidious microorganisms, such as in BHI Agar/Broth, SABHI Agar Base, etc. to grow Staphylococci, Streptococci, Haemophilus and Neisseria species and pathogenic fungi.

Principle And Interpretation

BHI Powder is prepared from meat infusion . It is a yellowish brown coloured, free flowing powder having characteristic but not putrescent odour. It readily dissolves in distilled water forming beige coloured, crystal clear solution which does not develop haziness after autoclaving.It is equivalent to Brain Heart Infusion powder.

Quality Control

Appearance

Light yellow to brownish yellow homogenous free flowing powder ,having characteristic odour but not putrescent.

Solubility

Soluble in distilled/ purified water, insoluble in alcohol and ether.

Clarity

1% w/v aqueous solution is clear without any haziness and free from visible foreign/black particles after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25°C.

pH

6.00- 7.00

Microbial Load:

Total aerobic microbial count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

Total Yeast and mould count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days.

Yeast & mould Count : <= 100 CFU/gram

Microbial Limits

1.*Escherichia coli*-Negative in 10 gms of sample 2.*Salmonella* species-Negative in 10 gms of sample 3.*Pseudomonas aeruginosa*-Negative in 10 gms of sample 4.*Staphylococcus aureus*- Negative in 10 gms of sample

Indole Test

Tryptophan content: Passes

Cultural Response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Brain Heart Infusion Agar (M211) using BHI Powder as an ingredient.

Cultural Response

Organism	Growth
Cultural Response <i>Candida albicans</i> ATCC 26790	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Shigella flexneri</i> ATCC 12022	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant

Streptococcus pneumoniae Luxuriant
ATCC 6303

Chemical Analysis

Total Nitrogen	$\geq 12.0\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 12.0\%$

Storage and Shelf Life

Store below 30°C. Use before expiry date on the label.

Disclaimer :

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