



Bio Peptone

RM021

Principle And Interpretation

Biopeptone is a mixture of enzymic digest of casein and animal tissue. It meets the nutritional requirements not supplied by meat peptone or casein hydrolysate individually. It is carefully processed to increase nutritive values to meet the growth requirements of wide variety of microorganisms. It provides a broad spectrum of peptides and amino acids and hence can be used in the manufacture of various culture media for cultivation of fastidious microorganisms. And also used for large scale production of antibiotics, enzymes & other products of microbiological origin.

Quality Control

Appearance

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

Solubility

Freely soluble in distilled/purified water, insoluble in alcohol and ether.

Clarity

1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Reaction

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

pH

5.90- 6.90

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

Test for Pathogens

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 5. *Candida albicans*- Negative in 10 gms of sample 6. *Clostridia*- 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 Columbia Broth (M145) using Biopeptone as an ingredient.

Cultural Response

Organism

Growth

Clostridium perfringens ATCC 12924

Luxuriant

Neisseria meningitidis ATCC 13090

Luxuriant

Staphylococcus aureus ATCC 25923

Luxuriant

Streptococcus pyogenes ATCC 19615

Luxuriant

Streptococcus mitis ATCC 9895

Luxuriant

Chemical Analysis

Total Nitrogen	>= 12.0%
Amino Nitrogen	>= 3.50%
Sodium chloride	<= 6.0%
Loss on drying	<= 5.0%
Residue on ignition	<= 12.0%

Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

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