



## Bio Peptone

RM021

It is recommended for cultivation of fastidious microorganisms and large scale production of antibiotics, enzymes & other products of microbiological origin.

### Principle And Interpretation

Biopeptone is a mixture of enzymic digest of casein and animal tissues. 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.

### 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    |
|--|-----------|
| <b>Cultural response</b><br><i>Clostridium perfringens</i><br>ATCC 12924 | Luxuriant |
| <i>Neisseria meningitidis</i> ATCC<br>13090                              | Luxuriant |
| <i>Staphylococcus aureus</i><br>ATCC 25923                               | Luxuriant |
| <i>Streptococcus pyogenes</i><br>ATCC 19615                              | Luxuriant |
| <i>Streptococcus mitis</i> ATCC<br>9895                                  | Luxuriant |

### Chemical Analysis

|                     |               |
|---------------------|---------------|
| Total Nitrogen      | $\geq 12.0\%$ |
| Amino Nitrogen      | $\geq 3.50\%$ |
| Sodium chloride     | $\leq 6.0\%$  |
| 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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