



## Bio Peptone

RM021

### Intended use

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.

### Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Safety guidelines may be referred in individual safety data sheets.

### Limitations

1. It is biological origin product since variation in colour of powder and clarity may observed.
2. Each lot of the product has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's requirement.
3. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium prepared by the product.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

### Quality Control

- **Appearance** : Light yellow to brownish yellow homogenous free flowing powder characteristic odour but not putrescent
- **Solubility** : Freely soluble in distilled/purified water, insoluble in alcohol and eth er.
- **Clarity** : 1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.
- **pH** : pH of 2% w/v aqueous solution at 25°C 5.90 - 6.90
- **Microbial Load** :  
Bacterial Count : <= 2000 CFU/gram by plate method, when incubated at 30-35°C for not less than 3 days  
Yeast & mould Count : <= 100 CFU/gram by plate method, when incubated at 20-25°C for not less than 5 days.
- **Test for pathogens** : 1. *Escherichia Coli* - Absent/gram of sample 2. *Salmonella* species- Absent/10 gram of sample 3. *Pseudomonas aeruginosa* - Absent/gram of sample 4. *Staphylococcus aureus* - Absent/gram of sample 5. *Candida albicans* - Absent/gram of sample 6. *Clostridia* - Absent/gram 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
<i>Clostridium perfringens</i> ATCC 12924	Luxuriant
<i>Neisseria meningitidis</i> ATCC 13090	Luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (WDCM 00034)	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant

**Chemical Analysis :**Total Nitrogen :  $\geq 12.00$  %Amino Nitrogen :  $\geq 3.50$  %Sodium chloride :  $\leq 6.00$  %Loss on drying :  $\leq 5.00$  %Residue on ignition :  $\leq 15.00$  %**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.

**Disposal**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.



Storage temperature



Do not use if package is damaged



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**Disclaimer :**

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