

## **Bio Peptone, certified**

# **CR021**

## **Intended use**

Biopeptone, Certified provides a broad spectrum of peptides and amino acids which supports better microbiological growth characteristics to a large variety of organisms. It is a refined product, to be used in media for analytical microbiology and industrial fermentation.

## **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.

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.
 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 ether.
- → Clarity : 1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.
- $\rightarrow$  **pH**: pH of 2% w/v aqueous solution at 25°C 6.0-7.0
- → 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 Bio Peptone, Certified as an ingredient.

Organism	Growth
Clostridium perfringens ATCC 12924	Luxuriant
Neisseria meningitidis ATCC 13090	Luxuriant
Staphylococcus aureus subsp. aureus ATCC 25923 (WDCM 00034)	Luxuriant
Streptococcus pyogenes ATCC 19615	Luxuriant

#### **Cultural Response**

#### **Chemical Analysis :**

Total Nitrogen : ≥12.00 %

Amino Nitrogen : ≥2.50 %

Sodium chloride :  $\leq 8.00 \%$ 

Loss on drying :  $\leq 6.00 \%$ 

Residue on ignition :  $\leq 18.00 \%$ 

#### **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.

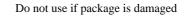
#### Disposal

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

HiMedia Laboratories Pvt Limited C-40,21/Y, MIDC, Wagle Ind Area Thane(W)–400604, Maharashtra, India



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#### **Disclaimer**:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia<sup>TM</sup> publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia<sup>TM</sup> Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. Reg.Office : Plot No:C-40, Road No: 21Y, MIDC, Wagle Industrial Area, Thane(West)-400604, Maharashtra, INDIA. Tel:00-91-22-61471919/61169797/69034800, Fax:00-91-22-61471920. Email : techhelp@himedialabs.com Website : www.himedialabs.com