



### Bi-Peptone

**RDM-P-01**

**Principle:** Bi-peptone is mixture of an enzymatic digest of animal tissue and an enzymatic digest of casein in appropriate proportion. So that it contains broad spectrum (animal and casein) of amino acids required for the growth of microorganisms. Hence it is suitable for the preparation of culture media.

**Use:** Recommended to use as culture media ingredient in variety of media preparations used for production of enzymes, steroids, vaccines and other pharmaceutical, agricultural economical products.

#### Quality Control

|                        |  |
|------------------------|--|
| <b>Appearance</b>      | Light beige colored homogeneous free flowing, powder                   |
| <b>Solubility (2%)</b> | Soluble in distilled water   |
| <b>Clarity</b>         | Light amber color clear solution without haziness at 2 % concentration |
| <b>pH</b>              | 6.50 – 7.50  |
| <b>Loss on drying</b>  | NMT 7.00% as estimated by AOAC method                                  |

#### Chemical analysis

|                            |           |
|----------------------------|-----------|
| <b>Total Nitrogen</b>      | NLT 8.0%  |
| <b>Amino Nitrogen</b>      | NLT 4.00% |
| <b>Residue on ignition</b> | NMT 7.00% |

**Bacteriological testing:** Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using Bi-peptone under test.

#### Test for pathogens:

|                              |                         |  |
|------------------------------|-------------------------|--|
| Total Plate Count            | NMT 10000 cfu per gram. |  |
| Yeast & Molds                | Absent per 10 grams     |  |
| <i>Escherichia coli</i>      | Absent per 10 grams     |  |
| <i>Salmonella</i>            | Absent per 10 grams     |  |
| <i>Staphylococcus aureus</i> | Absent per 10 grams     |  |

#### Culture response:

Cultural response observed after incubation at 35-37°C for 24 hours by using 2% Bi-peptone, 0.5% sodium chloride and 1.5% agar, vitamin mixture 0.001% in water, pH 7.2-7.4.

|  |                  |
|--|------------------|
| <i>Escherichia coli</i> (ATCC 25922)       | Luxurious growth |
| <i>Salmonella typhimurium</i> (ATCC 14028) | Luxurious growth |
| <i>Pseudomonas aeruginosa</i> (ATCC 10145) | Luxurious growth |

#### Storage and Shelf Life

Store below 30°C in tightly sealed jar or container. Use before expiry date on the label.

Expected performance when stored at optimum conditions and within expiry date.

**Disposal:** To avoid the contamination or propagation of any hazardous microbes used, unusable or modified preparation of this product must be disposed after autoclaving or incineration after completion of task.

#### Disclaimer

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