



## Technical Data Sheet

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### Gelatin Peptone

**RDM-P-05**

**Principle:** Gelatin is nitrogen rich product derived from animal collagen. Being rich in essential amino acids it can be effectively used in bacteriological media and tissue culture media.

**Use:** Recommended to use as source of amino acids in culture media ingredient in variety of media and also used to supplement essential amino acids for tissue culture media.

#### Quality Control

##### Physical parameters

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| <b>Appearance</b>      | Light beige colored homogeneous free flowing powder                       |
| <b>Solubility (2%)</b> | Soluble in distilled water                                                |
| <b>Clarity</b>         | Light amber colored, clear solution without haziness at 2 % concentration |
| <b>pH</b>              | 6.00 – 7.00 at 25°C                                                       |
| <b>Loss on drying</b>  | NMT 7.00 % as estimated by AOAC method.                                   |

##### Chemical analysis

|                        |                                        |
|------------------------|----------------------------------------|
| <b>Total Nitrogen</b>  | NLT 12.00 %                            |
| <b>Amino Nitrogen</b>  | NLT 2.00 %                             |
| <b>Peptone content</b> | NLT 85.00 %                            |
| <b>Ash Content</b>     | NMT 10.0% as estimated by AOAC method. |

**Bacteriological testing:** Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using gelatin 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% Gelatin peptone, 0.5% sodium chloride and 1.5% agar 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.

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