



### Pancreatic Digest of Casein

**RDM-P-10**

**Principle:** Pancreatic digest of casein is a milk protein and a rich source of amino acids, nitrogen and contain adequate amount of vitamins and minerals to stimulate the growth of microorganisms. It is a high-quality source of amino acids and peptides produced by the enzymatic digestion of casein. It is rich source of tryptophan and contain negligible amount of carbohydrate. Since used for indole testing and carbohydrates fermentation test.

**Use:** Recommended to use as culture media ingredient in variety of media and in fermentation.

#### Quality Control

##### Physical parameters

<b>Appearance</b>	White to off white colored homogeneous free flowing, hygroscopic powder
<b>Solubility (2%)</b>	Soluble in distilled water
<b>Clarity</b>	Pale yellow color clear solution without haziness at 2 % concentration
<b>pH</b>	6.00 – 7.50
<b>Loss on drying</b>	NMT 7.0%

##### Chemical analysis

<b>Total Nitrogen</b>	NLT 12.00 %
<b>Amino Nitrogen</b>	NLT 3.00 %
<b>Residue on ignition</b>	NMT 8.00 %

**Bacteriological testing:** Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using Pancreatic digest of casein 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% pancreatic digest of casein, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4.

<i>Escherichia coli</i> (ATCC 8739)	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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