



Technical Data Sheet

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Potato Peptone

RDM-P-31

CAS no.: 100209-45-8

Principle

Potato peptone is manufactured under controlled conditions from potato proteins. It is especially adapted for the preparation of media for culturing fastidious bacteria and supports cultural characteristics comparable with special peptone.

Use: It is recommended in culture media for culturing fastidious bacteria and supports cultural characteristics comparable with special peptone.

Quality Control

Physical parameters

Appearance	Light beige colored homogeneous free flowing, hygroscopic powder
Solubility (2%)	Soluble in distilled water
Clarity	Pale yellow color solution with slightly haziness at 2 % concentration
pH	5.00 – 7.50
Loss on drying	NMT 7.00% as estimated by AOAC method

Chemical analysis

Total Nitrogen	NLT 11.00 %
Alpha Nitrogen	NLT 2.0%
Residue on ignition	NMT 10.00 %

Bacteriological testing

Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using universal 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 2.00% potato peptone, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4.

<i>Escherichia coli</i> (ATCC 8739)	Luxuriant growth
<i>Salmonella typhimurium</i> (ATCC 14028)	Luxuriant growth
<i>Pseudomonas aeruginosa</i> (ATCC 27853)	Luxuriant growth

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

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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