



Technical Data Sheet

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Universal Peptone

RDM-P-18

Principle: Universal peptone is a combination of meat peptone and casein peptone containing a representative mix of low and high molecular peptones, a broad range of free amino acids in growth supporting concentrations, vitamins, and other growth factors. It combines the nutritive characteristics of casein and meat peptone provide all the essential and non-essential amino acids and other necessary growth nutrient for the growth of wide range of microorganisms.

Use: It is recommended in culture media for isolation and cultivation of pathogenic and nonpathogenic fungi.

Quality Control

Physical parameters

Appearance	Light beige colored homogeneous free flowing, hygroscopic powder
Solubility (2%)	Soluble in distilled water
Clarity	Pale yellow color, clear solution without haziness at 2 % concentration
pH	6.00 – 7.50 at 25°C
Loss on drying	NMT 7.00% as estimated by AOAC method.

Chemical analysis

Total Nitrogen	NLT 11.00 %
Amino Nitrogen	NLT 3.00 %
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% universal peptone, 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.

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