

# Peptones for Molecular Biology

Peptones are nutrient extracts for use in culture media formulations. These extracts are derived from casein, meat, yeasts and plants and provide a good source of nitrogen, carbon and other nutrients to microbiological cultures. These are commonly used in the formulation of culture media for growing cultures for genetic research and molecular biology.

## H26557 Casein Peptone

Casein peptone is a pancreatic digest of casein. It can be used in the formulation of microbiological culture media, especially blood-containing media. Casein peptone can also be used in the manufacture of enzymes, toxins and vaccines.

<i>Chemical Characteristics</i>	<i>Specification</i>	<i>Typical Analysis</i>
Amino Nitrogen (AN)	Min. 3.9%	4.2%
Total Nitrogen (TN)	Min. 10%	13.13%
AN/TN Ratio	N/A	32%
Loss on Drying	Max. 6%	3.3%
Ash	Max. 15%	6%
pH (2% solution)	6.5-7.5	6.8

## H26694 Meat Peptone

Meat peptone is an enzymatic digest of animal tissue. It can be incorporated into a wide range of solid and liquid media formulations and is suitable for culture of fastidious and non-fastidious micro-organisms. Meat derived products are carefully controlled and documented to ensure full traceability.

<i>Chemical Characteristics</i>	<i>Specification</i>	<i>Typical Analysis</i>
Amino Nitrogen (AN)	Min. 3.4%	3.7%
Total Nitrogen (TN)	Min. 10%	12.33%
AN/TN Ratio	N/A	30%
Loss on Drying	Max. 6%	2.7%
Ash	Max. 15%	9.2%
pH (2% solution)	6.5-7.5	6.9

## H26769 Yeast Extract

Yeast extract is a water-soluble extract of selected autolyzed yeast cells. It is rich in amino acids, growth factors and vitamins, particularly B-complexes. It is widely used as a growth source in many culture media formulations.

<i>Chemical Characteristics</i>	<i>Specification</i>	<i>Typical Analysis</i>
Amino Nitrogen (AN)	Min. 4.5%	5.4%
Total Nitrogen (TN)	Min. 10%	10.7%
AN/TN Ratio	N/A	50.46%
Loss on Drying	Max. 5%	3.3%
Ash	Max. 15%	9.5%
pH (2% solution)	6.0-7.2	6.8