



Peptone from meat | AS-1008

For preparation of microbial culture media and fermentation processes.

Peptide digestion of animal tissues results in a complex mixture known as meat peptone. As a rich source of nutrients for cultivating a diverse array of bacteria, it is essential in microbiology labs. Both fastidious bacteria with growth requirements and non-fastidious bacteria that can grow in less complicated conditions are included in this.

Among the many vital elements that meat peptone offers for bacterial growth are:

Free amino acids are directly incorporated by bacteria to synthesis proteins. They are the building blocks of proteins.

Carbon and nitrogen are necessary components for the synthesis of new cells.

B vitamins are essential for a number of metabolic activities in bacteria, and meat peptone is a rich source of these nutrients.

Due to high content of sulfur, meat peptone is appropriate for hydrogen sulfide bacteria such as *salmonella*.

Typical analysis

Powder appearance	Light yellow - beige
Solubility	Freely soluble in water
1% solution appearance	Clear, yellow - beige
pH (1% in water)	6.5 – 7.5

Chemical analysis

Total nitrogen	≥11.5
Sodium chloride	≤6
Amino nitrogen	≥3
Moisture	≤5

Amino acid composition (mg/g)

Aspartic acid	151
Methionine	140
Threonine	23.6
Serine	15.2
Glutamic acid	733
Proline	65.9
Glycine	1644
Alanine	1044
Cysteine	-
Valine	518
Isoleucine	475
Leucine	545
Tyrosine	274
Phenylalanine	426
Histidine	76.4
Lysine	438
Arginine	11.3
Tryptophan	39.1



Microbial Quality Control

Cultural response after 18-24 hours incubation at 35-37 °C on 2% peptone agar (AS-1318) prepared by meat peptone from meat as a component.

Strain	ATCC	Growth
<i>Escherichia coli</i>	25922	Luxuriant
<i>Staphylococcus aureus</i>	25923	Luxuriant

Shelf life and storage

Store between 10-30 °C in a ventilated and low humidity place and protected from light. Close the container tightly after use. Use before expiry date.

Note that this product is for R&D use only. DO NOT USE for drug, household, or any other uses.