



Yeast Extract Powder | AS-1010

For preparation of microbial culture media.

Yeast extract powder is an essential component in microbiology. It produced by drying yeast cell extract. It is a rich source of vital nutrients which support the growth of bacteria. Powdered yeast extract is a complicated combination made up of:

Carbon and Nitrogen Sources: It supplies carbon and nitrogen, which are crucial building components for bacterial cells and are frequently scarce in culture conditions.

Vitamins: B vitamins, which are essential for a number of bacterial metabolic functions, are especially high in it.

Free Amino Acids: Bacteria can directly incorporate these readily available amino acids to produce proteins.

Growth Factors: In addition to providing nucleotides and trace elements, yeast extract powder also provides other growth factors that promote the best possible growth of bacteria.

Typical analysis

Powder appearance	Light yellow to brownish yellow, homogenous, free flowing
Solubility	Completely soluble in water, insoluble in alcohol
2% solution appearance	Clear, light yellow
pH (2% in water)	6.5 – 7.5

Chemical analysis

Total nitrogen	≥10.5
Sodium chloride	≤5
Amino nitrogen	≥4.5
Moisture	≤6

Amino acid composition (mg/g)

Aspartic acid	65
Threonine	26
Serine	24
Glutamic acid	115
Proline	23
Glycine	30
Alanine	48
Cysteine	-
Methionine	9
Isoleucine	31
Leucine	42
Tyrosine	11
Phenylalanine	26
Histidine	14
Lysine	46
Arginine	32
Tryptophan	-



Microbial Quality Control

Cultural response after 18-48 hours incubation at 35-37 °C on Plate Count Agar (AS-1328) prepared by Yeast Extract as a component.

Strain	ATCC	Growth
<i>Escherichia coli</i>	25922	Luxuriant
<i>Streptococcus pyogenes</i>	19615	Luxuriant
<i>Staphylococcus aureus</i>	25923	Luxuriant
<i>Enterococcus faecalis</i>	29212	Luxuriant
<i>Bacillus subtilis</i>	6633	Luxuriant
<i>Lactobacillus casei</i>	9595	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.