

Edition 2020/04
Replaces Ed 04/2008



Yeast Extract 19512

Definition

Yeast Extract is manufactured by autolysis of *Saccharomyces cerevisiae*.

Description

Fine pale-yellow powder easily soluble in water.

Yeast Extract contains a mix of peptides, free amino acids, purine and pyrimidine bases and hydrosoluble vitamins of B group.

Use

Source of organic nitrogen and growth factors recommended in media for:

- Analytical microbiology
- Industrial fermentation.

Physico-chemical characteristics

	Standard
Solubility in water at 5%	Complete
pH (5 % solution)	6.4 - 7.4
Loss on drying	≤ 6.0 %
Total nitrogen TN	10.0 - 11.8 %
α-amino nitrogen AN	4.8 - 6.3 %
AN/TN x 100	41 - 60
Residue on ignition	≤ 18.0 %
Chloride (as NaCl)	≤ 1.0 %

Microbiology

	Standard
Total aerobic microbial count	≤ 5000 /g
Coliforms	≤ 10 /g
<i>Escherichia coli</i>	Absence /g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence /g
Yeast and moulds	≤ 100 /g

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Typical data

Molecular weight distribution	g/100g
> 10 000 daltons	0.1
1 000 - 10 000 daltons	7.2
500 - 1 000 daltons	14.3
300 - 500 daltons	12.3
300 - 150 daltons	23.0
< 150 daltons	43.2

Average Molecular Weight 374 daltons

Amino Acids		Free-F (g/100g)
Alanine	Ala	3.0
Arginine	Arg	2.0
Aspartic acid	Asp	2.3
Cysteine	Cys	0.2
Glutamic acid	Glu	6.6
Glycine	Gly	1.2
Histidine + Glutamine	His + Gln	0.9
Isoleucine	Ileu	2.3
Leucine	Leu	3.8
Lysine	Lys	2.2
Methionine	Met	0.9
Phenylalanine	Phe	2.2
Proline	Pro	1.4
Serine + Asparagine	Ser + Asn	2.8
Threonine + Citruline	Thr + Cit	1.6
Tryptophane	Trp	0.7
Tyrosine	Tyr	0.4
Valine	Val	2.5

Documentation

The certificate of analysis and the sanitary certificate are supplied with each delivery.

Packing and storage

25 kg net corrugated board box with inner polyethylene bags.

Upon request : 5kg plastic drum

Keep in original packaging closed when not in use,
at room temperature in a dry area.

Hygroscopic product.

Best before: 3 years

Health and safety information

Dusty powder.

Avoid inhalation.



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