Edition 04/2008
Replace Ed. 04/2005

Yeast Extract
19512

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AFAQ ISO 9001 VERSION 2000

AFAQ ISO 14001

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	≤ 5 000 /g
Coliforms	≤ 10 /g
Escherichia coli	Absence / g
Salmonella	Absence / 25 g
Staphylococcus aureus	Absence / g
Yeasts and moulds	≤ 100 /g

Les informations contenues dans ce document, données à titre indicatif, sont conformes à nos connaissances actuelles.
Il est de la responsabilité des utilisateurs de conduire leurs propres tests pour déterminer les conditions d'utilisations selon leurs usages spécifiques.

The information contained in this publication is based on our own research and development work and is to the best of our knowledge true and accurate.
Users should, however, conduct their own tests to determine the suitability of our products for their own specific purposes.
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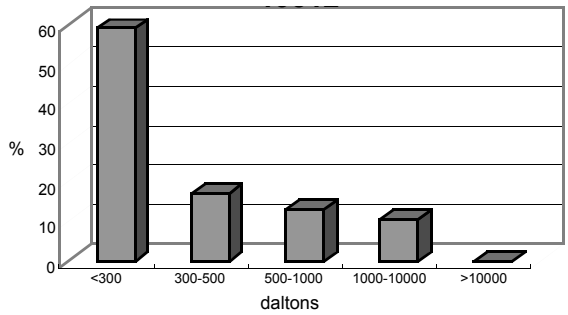
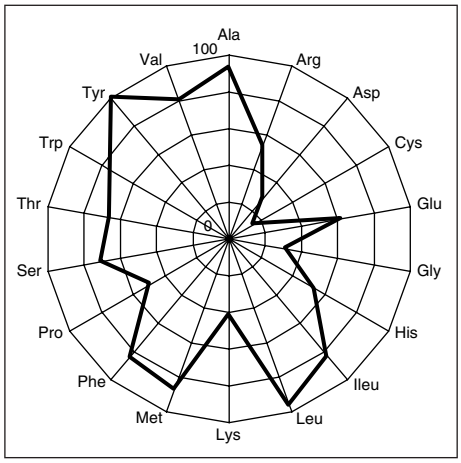
Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	10.7
500 - 1 000 daltons	13.0
300 - 500 daltons	17.2
< 300 daltons	59.1
Average Molecular Weight	**438 daltons**



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	4.1	3.8	92.7
Arginine	Arg	2.8	1.5	53.6
Aspartic acid	Asp	6.0	1.8	30.0
Cystine	Cys	0.6	0.1	16.7
Glutamic acid	Glu	11.0	6.8	61.8
Glycine	Gly	2.5	1.3	52.0
Histidine	His	1.1	0.6	54.5
Isoleucine	Ileu	2.6	2.2	84.6
Leucine	Leu	3.7	3.6	97.3
Lysine	Lys	4.2	1.8	42.9
Methionine	Met	0.8	0.7	87.5
Phenylalanine	Phe	2.5	2.1	84.0
Proline	Pro	2.2	1.1	50.0
Serine	Ser	2.7	1.9	70.4
Threonine	Thr	2.6	1.7	65.4
Tryptophan	Trp	0.8	0.6	75.0
Tyrosine	Tyr	0.8	0.8	100.0
Valine	Val	3.1	2.5	80.6



Amino Acids F/T x 100

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.
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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