

Edition 02/2010
Replace Ed. 04/2008

Ultrafiltered Yeast Extract 19712

Definition

Yeast Extract is manufactured by autolysis of *Saccharomyces cerevisiae*. It is then ultrafiltered and spray-dried.

Description

Fine pale-yellow powder easily soluble in water.
Ultrafiltered Yeast Extract contains a mix of peptides, free amino acids, purine and pyrimidine bases and hydrosoluble vitamins of B group.
Ultrafiltered Yeast Extract is supplied with a maximal guaranteed Endotoxin content.

Use

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

- Analytical microbiology
- Industrial fermentation.
- Cell Culture

Physico-chemical characteristics

	Standard
Solubility in water at 8 %	Complete
pH (8 % solution)	6,3 - 7,3
Loss on drying	≤ 6,0 %
Total nitrogen TN	10,4 - 12,3 %
α-amino nitrogen AN	4,6 - 6,4 %
AN/TN x 100	37 - 62
Residue on ignition	≤ 16,0 %
Chloride (as NaCl)	≤ 1,0 %
Endotoxin content	less than 300 UE/g

Microbiology

	Standard
Total aerobic microbial count	≤ 5 000 /g
Coliforms	≤ 10 /g
<i>Escherichia coli</i>	Absence /g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence / g
Yeasts and moulds	≤ 100 /g



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Il est de la responsabilité des utilisateurs de conduire leurs propres tests pour déterminer les conditions d'utilisations selon leurs usages spécifiques.

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Ultrafiltered Yeast Extract / 19712

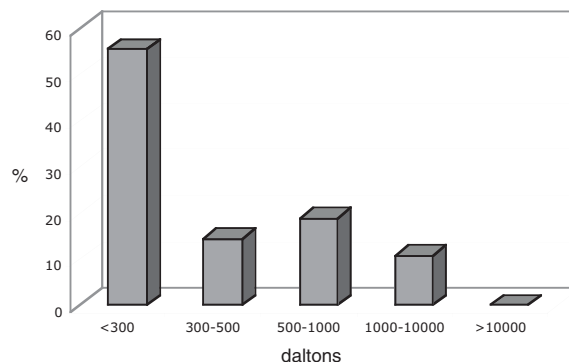
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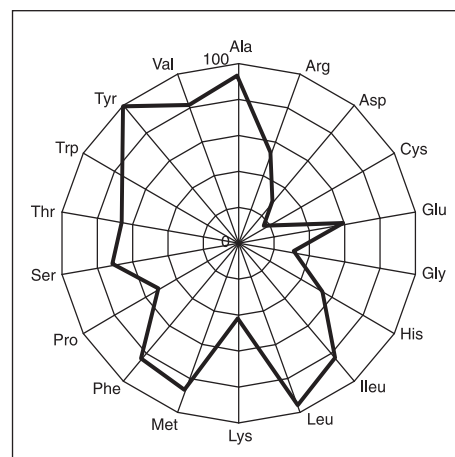
Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	10,9
500 - 1 000 daltons	18,9
300 - 500 daltons	14,5
< 300 daltons	55,7
Average Molecular Weight	450 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

10 kg net 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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