

Edition 04/2008  
Replace Ed. 04/2005



## Yeast Extract 19512

**Organotechnie® S.A.S.**

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### 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
<i>Escherichia coli</i>	Absence / g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence / g
Yeasts and moulds	≤ 100 /g



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.

Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for the infringement of any patents.

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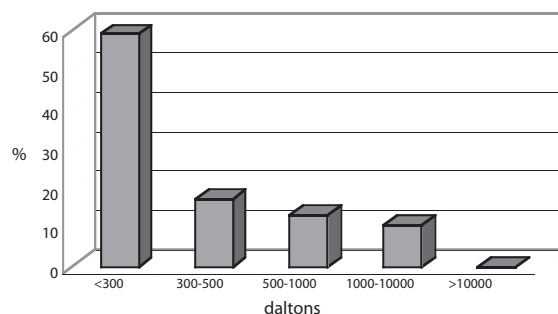


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## Typical data

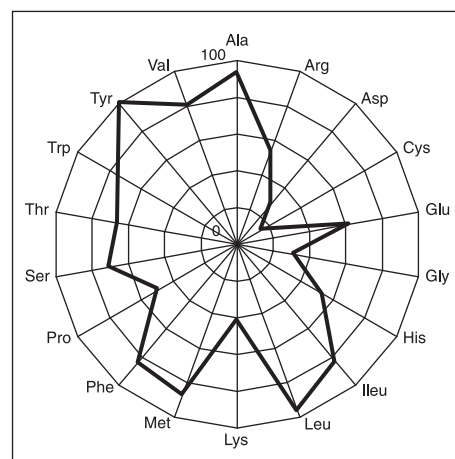
Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	10.7
500 - 1 000 daltons	13.0
300 - 500 daltons	17.2
< 300 daltons	59.1

**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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