

Edition 04/2008  
Replace Ed. 04/2005

# 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          | 10,7 - 12,3 %      |
| α-amino nitrogen AN        | 5,2 - 6,8 %        |
| AN/TN x 100                | 42 - 63            |
| 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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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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# Ultrafiltered Yeast Extract / 19712

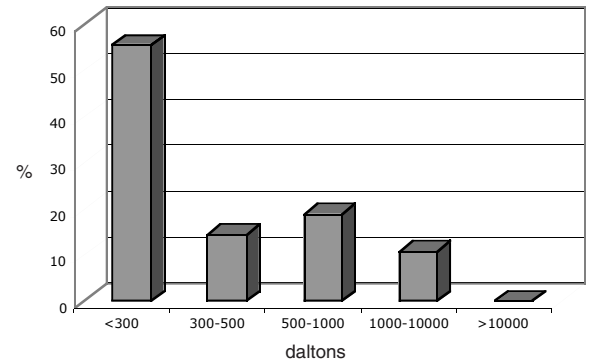
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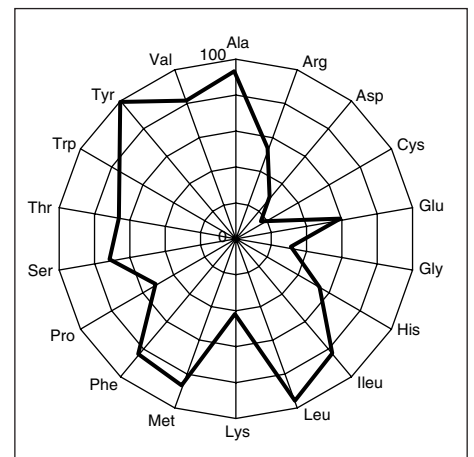
## Typical data

| 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               |
| <b>Average Molecular Weight</b> | <b>450 daltons</b> |



Molecular weight distribution

| Amino Acids   |      | Total - T<br>(g/100 g) | Free - F<br>(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

5 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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