

## Yeast extract

Cat. 1702

Source of vitamins, B complex in particular, amino acids and other growth factors for the development of culture media.

### Practical information

| Applications    | Categories  |
|-----------------|-------------|
| Nitrogen source | General use |

Industry: Fermentation / Culture media ingredients / Manufacturing process

### Principles and uses

Yeast extract is a concentrate of the water-soluble portion of selected strain yeast cells, specially grown on a molasses-based media, that have been autolyzed.

It is rich in vitamins, especially B-complexes, amino acids and other growth factors. It is used in many microbiological culture media formulations as an excellent growth source.

Yeast extract is considered a non-animal product and is used extensively for many non-animal formulations of bacterial, fungal, mammalian and insect cell culture.

### Physical-chemical characteristics

| Description         | Specification |
|---------------------|---------------|
| Ash                 | <16%          |
| Amino Nitrogen (AN) | >4,5%         |
| Total Nitrogen (TN) | >10%          |
| pH                  | 6,8-7,2       |
| Chlorides (as NaCl) | <0,5%         |
| Dry matter          | >94%          |
| Proteins            | >62,5%        |

### Amino acids

|               | Total (g/100g) |            | Total (g/100g) |               | Total (g/100g) |
|---------------|----------------|------------|----------------|---------------|----------------|
| Alanine       | 3,6            | Histidine  | 1,0            | Phenylalanine | 2,5            |
| Arginine      | 2,3            | Isoleucine | 2,8            | Proline       | 1,7            |
| Aspartic Acid | 5,1            | Leucine    | 3,9            | Serine        | 2,4            |
| Cysteine      | 1,1            | Threonine  | 2,7            | Tryptophan    | 0,1            |
| Glutamic Acid | 9,5            | Lysine     | 4,0            | Tyrosine      | 1,0            |
| Glycine       | 2,4            | Methionine | 0,3            | Valine        | 3,1            |

### Microbiological test

| Description               | Specification |
|---------------------------|---------------|
| Total mesophilic bacteria | <5.000 CFU/g  |
| Total coliforms           | <5 CFU/g      |
| Yeasts                    | <50 CFU/g     |
| Molds                     | <50 CFU/g     |
| E. coli                   | Negative      |

## Storage

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Temp. Min.:2 °C  
Temp. Max.:25 °C