

Edition 2018/01



Yeast Extract FB 19513

Definition

Yeast Extract FB is a primary grown Yeast Extract of *Saccharomyces cerevisiae*.
Yeast Extract FB is rich in complex B-vitamins such as thiamine, riboflavin, niacin and biotin.
Yeast Extract FB is used in many types of fermentations including lactic acid bacteria fermentations and pharmaceutical fermentations.
It is especially recommended for hard to grow pathogenic bacteria.

Description

Beige powder soluble in water.

Use

Source of organic nitrogen and growth factors recommended in media for:
- Industrial fermentation.

Physico-chemical characteristics

| | Standard |
|----------------------------|-----------|
| Moisture (%) | ≤ 6 |
| pH (2 % solution) | 5,8 – 6,8 |
| Protein (N x 6,25) % on DM | ≥ 62 |
| Salt (NaCl) % on DM | ≤ 1 |

Microbiology

| | Standard |
|--------------------------------------|----------------|
| Total Plate Count | ≤ 10 000 /g |
| Yeast | ≤ 50 /g |
| Molds | ≤ 50 /g |
| Coliforms | ≤ 10 /g |
| <i>E. Coli</i> | Absence /g |
| <i>Staphylococcus aureus</i> (coag+) | Absence / g |
| <i>Salmonella</i> | Absence / 25 g |

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Typical data

These are typical values per 100g product for indication purpose (no guarantees)

Amino acid profile (g)

| | Total AA | Free AA |
|---------------|----------|---------|
| Aspartic acid | 6.8 | 2.5 |
| Glutamic acid | 10.3 | 4.7 |
| Alanine | 4.7 | 2.7 |
| Arginine | 3.1 | 1.6 |
| Phenylalanine | 2.7 | 2.1 |
| Glycine | 2.7 | 1.0 |
| Isoleucine | 3.1 | 1.9 |
| Hystidine | 2.7 | 1.7 |
| Leucine | 4.3 | 3.3 |
| Lysine | 4.7 | 1.9 |
| Proline | 2.3 | 0.8 |
| Serine | 3.3 | 1.9 |
| Tyrosine | 1.5 | 1.5 |
| Threonine | 2.9 | 1.5 |
| Valine | 3.4 | 2.3 |
| Cysteine | 0.7 | 0.3 |
| Methionine | 0.9 | 0.8 |
| Tryptophan | 0.6 | 0.5 |

Molecular weight distribution (g/100g)

| | |
|------------------------|------|
| >10 000 daltons | 4.0 |
| 10 000 - 6 512 daltons | 2.0 |
| 6 512 – 1 355 daltons | 19.5 |
| 1 355 – 307 daltons | 17.0 |
| <307 daltons | 57.5 |

Vitamins

| | mg |
|---------------------|---------|
| Thiamin HCL | min 36 |
| Riboflavin | min 13 |
| Niacin | min 650 |
| Pyridoxine acid HCL | 7 |
| Folic acid | ND |
| Pantothenic acid | 11 |
| Biotin | min 2 |

Minerals

| | mg |
|------------|------|
| Iron | 4.0 |
| Magnesium | 132 |
| Manganese | 2.0 |
| Phosphorus | 1280 |
| Potassium | 3600 |
| Sodium | 678 |
| Zinc | 12.3 |
| Calcium | 152 |

Heavy metals

| | |
|---------|-----------|
| Arsenic | < 2 ppm |
| Lead | < 2 ppm |
| Mercury | < 0,1 ppm |
| Cadmium | < 1 ppm |

Documentation

The certificate of analysis is supplied with each delivery.

Packing and storage

20 kg kraft paper bag with polyliner..

Keep in original packaging closed when not in use, at room temperature in a dry area.

Best before: 2 years

Health and safety information

Dusty powder.

Avoid inhalation.

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