

Edition 2018/01



Yeast Extract YB 19514

Definition

Yeast Extract YB is a water soluble Yeast Extract made from the genus *Saccharomyces cerevisiae*.

Yeast Extract YB is rich in nucleotides and contains a high level of protein in readily and easily absorbable pre-digested forms such as peptides and amino acids.

Yeast Extract YB is used in many types of fermentations including lactic acid bacteria fermentations and pharmaceutical fermentations.

Description

Light brown 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 – 7
Protein (N x 6,25) on DM	≥ 62 %
Salt (NaCl) % on DM	≤ 1
5' GMP – 2Na-7H ₂ O + 5' IMP – 2Na-7H ₂ O on DM	≥ 6 %

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	0.6
Glutamic acid	13.7	4.3
Alanine	4.1	1.1
Arginine	2.6	0.8
Phenylalanine	2.3	0.6
Glycine	3.1	0.2
Isoleucine	2.6	0.5
Hystidine	1.2	0.3
Leucine	3.9	1.3
Lysine	5.0	1.1
Proline	2.2	0.1
Serine	2.8	0.2
Tyrosine	1.9	0.4
Threonine	2.7	0.4
Valine	3.4	0.4
Cystine	0.5	-
Methionine	0.5	0.2
Tryptophan	ND	ND

Molecular weight distribution (g/100g)

>10 000 daltons	1.0
10 000 - 6 512 daltons	0.2
6 512 – 1 355 daltons	27.4
1 355 – 307 daltons	19.4
<307 daltons	52

Vitamins mg

Thiamin HCL	6.9
Riboflavin	6.1
Niacin	35
Pyridoxine acid HCL	2.6
Folic acid	-
Pantothenic acid	11
Biotin	0.07

Minerals mg

Iron	4.0
Magnesium	132
Manganese	2.0
Phosphorus	1 280
Potassium	3 600
Sodium	678
Zinc	12.3
Calcium	152

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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