

DESCRIPTION
is a primary yeast extract obtained by the autolysis of a selected strain of *Saccharomyces cerevisiae* yeast, especially grown on a molasses based media.

CERTIFICATIONS
This product is guaranteed to be Non-GM, free of animal origin ingredient and Kosher.

APPLICATIONS
Recommended for most fermentation processes and laboratory media formulations:
High quality source of readily available soluble, amino acids, peptides, vitamins and essential elements.

PHYSICO-CHEMICAL
CHARACTERISTICS

Solubility
Totally soluble
Colour of commercial product
Light beige
Colour in 10% solution
Light clear yellow

Dry matter	Min.	94.0 %
Total nitrogen		10.0 - 11.8 %
Amino nitrogen		4.5 - 5.8 %
pH		6.8 - 7.2
Sodium chloride	Max.	0.5 %
Proteins (Nitrogen x 6.25)		62.5 - 73.8 %
Total carbohydrates		7.0 - 13.0 %
Ash		11.5 - 16.0 %

MICROBIOLOGICAL
CHARACTERISTICS

Total mesophilic bacteria	Max.	5 000 CFU/g
Coliforms	Max.	5 CFU/g
Spores of Clostridium perfringens	Max.	10 CFU/g
Yeasts	Max.	50 CFU/g
Moulds	Max.	50 CFU/g
Salmonella	Negative	CFU/25g
E.coli	Negative	CFU/g
Pathogenic Staphylococcus	Negative	CFU/g

AVERAGE AMINO
ACID COMPOSITION

in 100 g of raw proteins	
Alanine	8.6
Arginine	4.2
Aspartic acid	4.5
Cysteine	0.8
Glutamic acid	19.6
Glycine	5.4
Histidine	2.4
Isoleucine	4.6
Leucine	8.5

in mg per kg of dry matter (ppm)	
B1 (Thiamine)	15
B2 (Riboflavin)	80
B5 (Calcium Pantothenate)	200
B6 (Pyridoxine)	30
B8 (Biotin)	3
B9 (folic acid)	15
B12 (Cyanocobalamin) (µg/kg)	1
PP (Niacin)	600

in g per 100 g of product	
Lysine	7.1
Methionine	2.2
Phenylalanine	4.9
Proline	5.7
Serine	5.8
Threonine	6.8
Tyrosine	2.2
Valine	6.7

AVERAGE VITAMIN
COMPOSITION

in mg per kg of product (ppm)	
B1 (Thiamine)	15
B2 (Riboflavin)	80
B5 (Calcium Pantothenate)	400
B6 (Pyridoxine)	100
B8 (Biotin)	10
B9 (folic acid)	60
B12 (Cyanocobalamin) (µg/kg)	5
PP (Niacin)	1000

MINERALS

in g per 100 g of product

Sodium	< 0.5
Potassium	4.5
Phosphorus	2.7
Calcium	< 0.1
Magnesium	< 0.3
Selenium (ppm)	< 0.1
Zinc (ppm)	< 90

HEAVY METALS

in mg per kg of product (ppm)

Arsenic	< 0.5
Cadmium	< 0.1
Mercury	< 0.05