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# YEAST EXTRACT

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## ENRICHMENT FACTOR FOR CULTURE MEDIA

### 1 INTENDED USE

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Yeast Extract is considered as a principal enrichment factor in culture media. It accelerates the growth of a wide variety of microorganisms, including yeasts and molds. Because of its carbohydrate content, it is not suitable for media intended for the study of sugar fermentation.

### 2 DESCRIPTION

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Controlled enzymatic digestion of the cellular constituents of yeast (*Saccharomyces cerevisiae*) by its own enzymes (autolysis) furnishes an extract rich in amino acids, oligopeptides, vitamins (especially the B group), growth factors, carbohydrates, and purine and pyrimidine bases from nucleic acids.

### 3 TYPICAL ANALYSIS

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#### Physical characteristics :

- Aspect, color.....yellow powder
- Solubility in water at 5 % .....total
- pH of an aqueous 5% solution ..... 7,0 ± 0,5
- Stability at pH 7,0 after autoclaving for 15 minutes at 121 °C..... stable

#### Chemical characteristics :

- Total Nitrogen ..... 10 - 12 %
- $\alpha$ -amino Nitrogen ..... 4,5 - 6,5 %
- Indole..... absence
- Nitrites ..... absence
- Chlorides (expressed as NaCl) ..... less than 0,5 %
- Calcium..... 0,1 %
- Sulfuric ash..... less than 17,0 %
- Loss on drying ..... less than 6,0 %

#### Total amino acids (expressed in g per 100 g of product) :

- Aspartic acid ..... 6,5
- Threonine ..... 2,6
- Serine ..... 2,4
- Glutamic acid..... 11,5
- Proline ..... 2,3
- Glycine..... 3,0
- Alanine..... 4,8
- Valine..... 4,1
- Cystine..... not assayed
- Methionine ..... 0,9
- Isoleucine ..... 3,1
- Leucine ..... 4,2
- Tyrosine ..... 1,1
- Phenylalanine ..... 2,6
- Lysine ..... 4,6
- Histidine ..... 1,4
- Arginine ..... 3,2
- Tryptophan ..... 0,9

**Vitamins** (expressed as mg per 100 g of product) :

- Thiamine .....	2,1
- Riboflavin .....	12,5
- Pyridoxin .....	2,4
- Nicotinic acid .....	60,0
- Pantothenic acid .....	10,5
- Folic acid .....	0,6
- Choline .....	150,0
- Biotin .....	0,4

**4 BACTERIOLOGICAL CONTROL**

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- Total aerobic mesophilic count.....less than 5000 cfu/g
- Heat-resistant spores in 1 gram ..... absence

**5 PACKAGING / STORAGE / SHELF LIFE**

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500 g bottle .....	A1202HA
5 kg drum .....	A1202GC

Store between 2 - 30 °C, until the expiration date indicated on the label.

**6 ADDITIONAL INFORMATION**

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The information provided on the package take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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