
YEAST EXTRACT

ENRICHMENT FACTOR FOR CULTURE MEDIA

1 INTENDED USE

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

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

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 %
- α -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

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

5 PACKAGING / STORAGE / SHELF LIFE

500 g bottle	A1202HA
5 kg drum	A1202GC

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

6 ADDITIONAL INFORMATION

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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