BACTERIOLOGICAL MALT EXTRACT

CULTURE OF YEASTS AND MOLDS

1 INTENDED USE

Malt extract is intended primarily for the culture and enumeration of yeasts and molds in malt extract media. It favors the sporulation of molds such as *Aspergillus* and *Penicillium*. Because of it high carbohydrate content, malt extract should not be subjected to excessive heating, since the culture medium will turn brown.

2 DESCRIPTION

Bacteriological Malt Extract is obtained by successive purifications such that all residual enzymatic activity is removed.

It is rich in carbohydrates (maltose, glucose, fructose, sucrose, trisaccharides, dextrins) and vitamins (thiamine, biotin, riboflavin, nicotinic acid, folic acid, inositol).

These compounds ensure the rapid growth of yeasts and molds.

3 TYPICAL ANALYSIS

Physical characteristics :

- Appearance, color ....yellowish powder
- Solubility in water at 1,5 % ....total
- pH of an aqueous solution at 1,5 % .... 5,0 ± 0,5
- Stability after autoclaving for 15 minutes at 121 °C ....stable

Chemical characteristics :

- Maltose .... 80,0 %
- Dextrins .... 10,0 %
- Protein substances... 5,0 %
- Inorganic substances .... 1,5 %
- Glycerol detection...negative
- Loss on drying ....less than 6,0 %

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

- Aspartic acid.. 0,9
- Threonine 0,4
- Serine 0,4
- Glutamic acid... 1,6
- Proline 0,6
- Glycine... 0,4
- Alanine... 0,4
- Valine... 0,6
- Cystine...not assayed
- Methionine 0,2
- Isoleucine 0,5
- Leucine 0,6
- Tyrosine 0,3
- Phenylalanine 0,7
- Lysine 0,6
- Histidine... 0,6
- Arginine 0,5

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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 A1101HA
5 kg drum A1101GC

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

6   ADDITIONAL INFORMATION

The information provided on the labels 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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