

PAPAIC DIGEST OF SOYBEAN MEAL USP

PEPTONE - CULTURE OF VARIOUS MICROORGANISMS

1 INTENDED USE

As a result of its balanced content of essential amino acids, carbohydrates and vitamins, Papaic Digest of Soybean Meal USP leads to the very rapid and abundant growth of a wide variety of microorganisms, including yeasts and molds. It is often combined with Tryptone in Tryptone Soy Broth and Tryptone Soy Agar for the growth of fastidious microorganisms.

2 DESCRIPTION

Papaic Digest of Soybean Meal is obtained by the action of papain on de-fatted soybean meal.

It contains a high proportion of carbohydrates which explains why it is not suitable for studying sugar fermentations.

3 TYPICAL ANALYSIS

Physical characteristics :

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

Chemical characteristics :

- Biuret reaction positive
- Total Nitrogen 10,0 ± 0,7 %
- α amino Nitrogen 2,5 ± 0,7 %
- Indole absent
- Nitrites absent
- Chlorides (expressed as NaCl) less than 2 %
- Calcium 0,5 %
- Sulfuric ash less than 17,0 %
- Loss on drying less than 6,0 %

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

- Aspartic acid 7,2
- Threonine 2,5
- Serine 3,4
- Glutamic acid 13,2
- Proline 4,2
- Glycine 2,9
- Alanine 2,9
- Valine 4,6
- Cystine not dosed
- Methionine 0,8
- Isoleucine 3,0
- Leucine 5,2
- Tyrosine 1,3
- Phenylalanine 3,4
- Lysine 4,6
- Histidine 1,9
- Arginine 4,2
- Tryptophan 1,1

Microbiological characteristics :

- Indole production negative
- Hydrogen sulfide production positive
- Acetylmethylcarbinol production..... positive
- Detection of fermentable sugars positive

4 BACTERIOLOGICAL CONTROL

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

5 PACKAGING / STORAGE / SHELF LIFE

500 g bottle A1601HA

Store between 2 - 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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