
ACID HYDROLYSATE OF CASEIN

PEPTONE - PREPARATION OF CULTURE MEDIA

1 INTENDED USE

Acid Hydrolysate of Casein is included in the composition of culture media intended for microbiological assays of vitamins and of tryptophan, as well as for the study of the resistance of bacteria to antibiotics, to sulfamides in particular. It is included in Mueller-Hinton Agar.

2 DESCRIPTION

Acid Hydrolysate of Casein is obtained by the hydrochloric acid hydrolysis of a high quality casein.

As a result of the relatively consistent quality of the starting material used, Acid Hydrolysate of Casein furnishes constant results.

Hydrochloric acid is neutralized after hydrolysis, explaining the high levels of inorganic salts.

The hydrolysate is composed primarily of free amino acids, except for tryptophan and cystine. It contains no vitamins.

3 TYPICAL ANALYSIS

Physical characteristics :

- Appearance, color off-white powder
- Solubility in water at 5 % total
- pH of an aqueous solution at 5 % $5,5 \pm 0,5$
- Stability after autoclaving for 15 min at 121 °C stable

Chemical characteristics :

- Biuret reaction negative
- Total Nitrogen $7,5 \pm 0,5$ %
- α -amino Nitrogen $5,5 \pm 1,0$ %
- Total carbohydrates less than 0,5 %
- Indole absent
- Nitrites absent
- Chlorides (expressed in NaCl) less than 45 %
- Calcium 0,05 %
- Loss on drying less than 6,0 %

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

- Aspartic acid 4,4
- Threonine 2,2
- Serine 2,7
- Glutamic acid 12,5
- Proline 6,1
- Glycine 1,2
- Alanine 2,0
- Valine 3,9
- Cystine not assayed
- Methionine 1,2
- Isoleucine 2,4
- Leucine 3,4
- Tyrosine 0,6

- Phenylalanine	2,5
- Lysine	5,6
- Histidine	1,8
- Arginine	2,2
- Tryptophan	0,0

4 BACTERIOLOGICAL CONTROL

- Total aerobic mesophilic countless than 5000 cfu/g
- Heat resistant spores in 1 gabsent

5 PACKAGING / STORAGE / SHELF LIFE

500 g bottleA1404HA

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