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# ACID HYDROLYSATE OF CASEIN

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## PEPTONE - PREPARATION OF CULTURE MEDIA

### 1 INTENDED USE

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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

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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

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#### 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 .....  $7,5 \pm 0,5$  %
- $\alpha$ -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

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

#### 5 PACKAGING / STORAGE / SHELF LIFE

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500 g bottle .....A1404HA

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

#### 6 ADDITIONAL INFORMATION

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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.

Document code : AHC\_ENv6  
 Creation date : 04-2003  
 Updated : 05-2016  
 Motive for revision : General update.