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# PANCREATIC DIGEST OF CASEIN CODEX

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## PEPTONE – CULTURE OF BACTERIA, YEASTS & MOLDS

### 1 INTENDED USE

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Pancreatic Digest of Casein Codex is suitable for the preparation of culture media destined for usual bacteriological controls. Combined with meat peptones and as a result of its appropriate nutritional qualities and pH, it is used in media destined for the growth of yeasts and molds. It is also used to grow lactic acid bacteria and for the development of sporulated aerobic bacteria such as *Bacillus* species.

### 2 DESCRIPTION

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Pancreatic digest of casein is obtained by the pancreatic digest of a high grade casein.

As a result of the relatively constant quality of the starting material used, this peptone furnishes consistent and efficient results.

The method of preparation was specially designed to reduce the ash level to a minimum and increase the protein content proportionally so as to favor the development of a number of microorganisms.

### 3 TYPICAL ANALYSIS

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#### Physical characteristics :

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

#### Chemical characteristics :

- Biuret reaction ..... positive
- Total Nitrogen .....less than or equal to 13,8 %
- $\alpha$  amino Nitrogen ..... 5,7 ± 1,0 %
- Indole ..... absent
- Nitrites .....absent
- Chlorides (expressed as NaCl) .....less than 1,8 %
- Calcium ..... 0,2 %
- Sulfuric ash .....less than 7,0 %
- Loss on Drying .....less than 6,0 %

**Total Amino Acids** (expressed as g pour 100 g of product) :

- Aspartic acid.....	6,4
- Threonine.....	3,4
- Serine.....	4,2
- Glutamic acid.....	17,4
- Proline.....	8,4
- Glycine.....	1,9
- Alanine.....	2,6
- Valine.....	5,1
- Cystine.....	not dosed
- Methionine.....	2,4
- Isoleucine.....	4,3
- Leucine.....	7,2
- Tyrosine.....	2,0
- Phenylalanine.....	4,1
- Lysine.....	6,5
- Histidine.....	2,7
- Arginine.....	3,1
- Tryptophan.....	1,2

**4 MICROBIOLOGICAL CONTROL**

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

**5 PACKAGING / STORAGE / SHELF LIFE**

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500 g bottle.....	A1402HA
5 kg drum.....	A1402GC

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

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