

## Description

**Origin :** Pancreatic Digest of Casein CODEX is obtained by a controlled pancreatic digestion of casein (NZ or AUS) origin. This reference can be manufactured in both France and Brazil to identical specifications, providing supply chain security for end-users.

**Context :** this peptone is produced from alimentary or food-grade casein, with enzymes of porcine origin. It is therefore compliant with the Note for Guidance EMEA/410/01 – Rev. 3 of March 2011 (2011/C 73/01 of the Official Journal of the European Union) but can not be considered allergen-free due to the presence of milk proteins (Annex IIIa of the EU directive 2003/89/EC, updated with 2006/142/EC).

**Application :** obtained through a process designed to eliminate inorganic salts, this peptone is characterized by a high level of protein and a slightly acid pH in solution. Demonstrating a low ash content, this peptone is suited for a wide range of microorganisms, stimulating the growth of varied genera such as *Bacillus*, *Lactococci*, and various mesophilic or thermophilic *Actinomycetes*.



## Physical properties

Appearance : dead white powder  
Stability (2% in solution) : stable  
Solubility in water at 2% : total

## Microbiological controls

Total aerobic mesophilic flora ≤ 5000 cfu/g

## Chemical analysis

Total nitrogen (NT) : 14.5%  
α-amino nitrogen (Nα) : 6.0%  
Nα / NT : 0.41  
Sulfuric ash : 1.2%  
pH (2% in solution) : 5.5  
Total carbohydrates : 0.4%  
Chlorides (as NaCl) : 0.3%  
Loss on drying : ≤ 6.0%

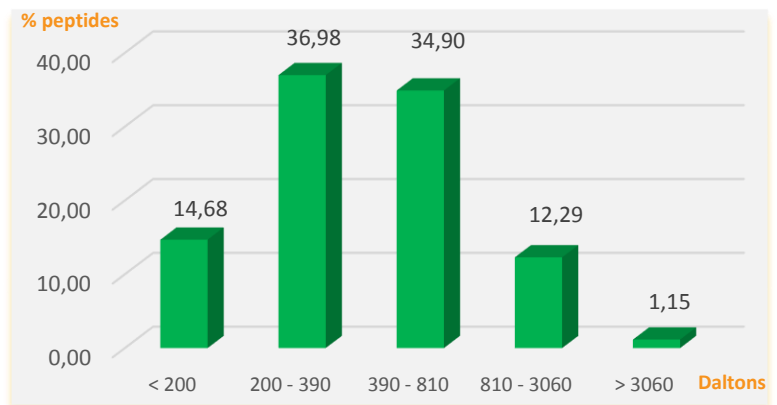
## Chemical characteristics

Nitrites : absent      Indole : absent  
Calcium : < 0.20%      Magnesium : < 0.02%

## Amino acid (AA) distribution (mg/g)

	Total AA		Total AA
Aspartic acid	64.0	Methionine	24.2
Threonine	34.4	Isoleucine	43.3
Serine	42.1	Leucine	72.0
Glutamic acid	174.0	Tyrosine	20.0
Proline	84.0	Phenylalanine	40.0
Glycine	32.0	Histidine	27.0
Alanine	19.0	Lysine	65.0
Cysteine	/	Arginine	30.0
Valine	51.0	Tryptophan	/

## Molecular weight distribution (Daltons)



## Standard packaging / Storage

25 kg carton ; other formats inquire.  
Delivered with Certificate of Analysis, Certificate of Origin. Separate non-animal, GMO, Allergen statements or veterinary certificate available upon request.

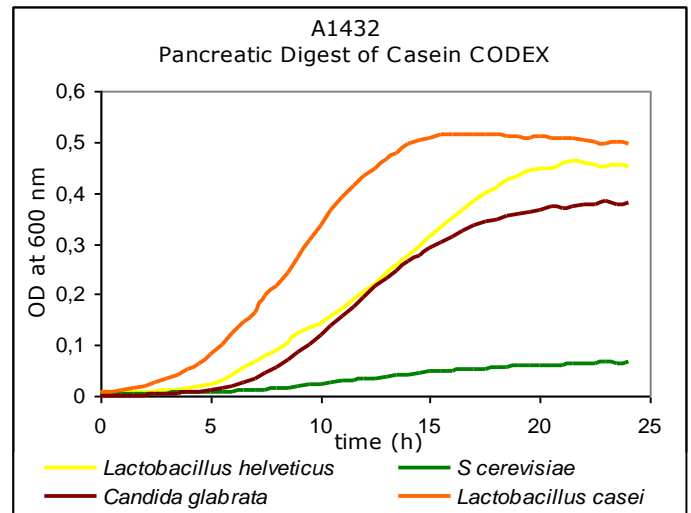
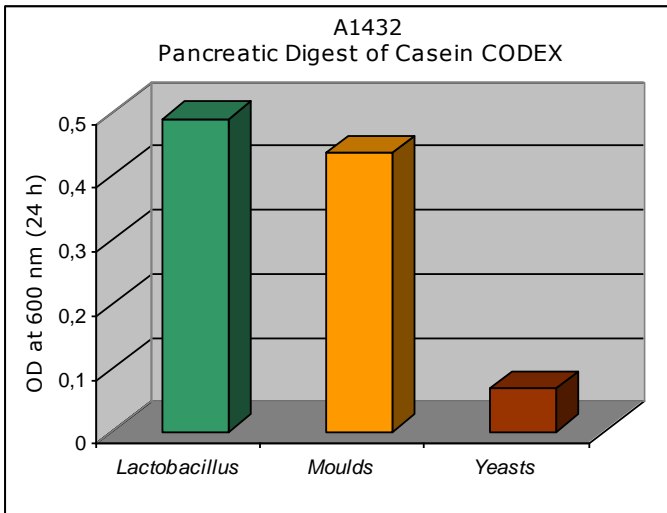
Keep in original packaging when not in use, in a dry area ideally between 10 and 35°C. Avoid direct sunlight. Hygroscopic product.  
Expiry date : 5 years from date of manufacture.

## Sanitary / Regulatory statement

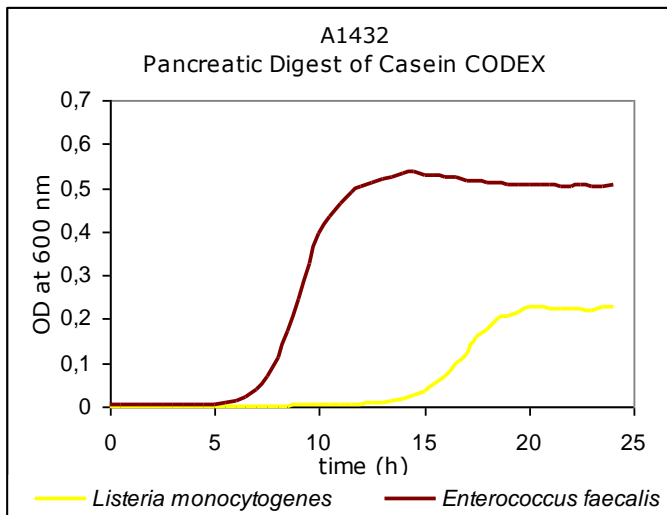
Given the origins and processing of this product, it remains outside of the scope of European Pharmacopoeia directives 1999/82/EC, 1999/104/EC, 2000/418/EC & 2011/C 73/01 as well as the Note for Guidance EMEA/410/01 Rev. 3. The casein used as a starting material is sourced from animals in good health and the milk declared fit for human consumption. The geographical origins are New Zealand or Australia.

To the best of our knowledge it is GMO free (according to the European Directive 2001/18/CE defining legislation for labeling ; absence = less than 0.9%).

## OBSERVED MICROBIAL GROWTH POTENTIAL :



Inoculum  $10^8$  cfu / mL  
Growth medium: 3 % peptone + 0.25 % glucose



Inoculum  $10^2$  cfu/mL  
Culture medium : 1% peptone + 0.5% NaCl

This peptone demonstrates excellent growth for lactic acid bacteria and more generally of a wide variety of microorganisms for varied applications. Results may differ depending on individual laboratory conditions and for other genera, species and strains.

Produced under **ISO 9001 v 2015** certification



Manufacturing site and quality system open to audits by qualified customers. Inquire with Solabia.

CoA available online : use product code **A143200** + lot number.

V. 08/2019

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End-users are directed to perform proprietary tests to determine suitability and performance for specific applications. The information and results contained in this technical data sheet are susceptible to modification at any time, without warning.