

Description

Origin : Enzymatic Digest of Casein **KOSHER** is obtained by an enzymatic digestion of casein of Oceanic (NZ or AUS) origin using all **Kosher** components. The product is considered **Kosher Dairy (Kashrus)** certificate supplied to qualified users).

Context : this peptone is produced from alimentary or food-grade casein, with enzymes of microbial 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). An identical **Kosher Pareve Halal** version is available under reference **A144600**.

Application : obtained through a process designed to produce a **Kosher** equivalent to Tryptone USP, but without the pancreatine, this peptone has been specifically developed for use in the food fermentation and probiotics industry, where growth of lactic acid bacteria is the primary focus but where a non-animal product is not essential. This peptone can be used by itself or as a component in more complex growth media as MRS broth, where excellent results have been observed.



Physical properties

Appearance : 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) : 12.1%
 α-amino nitrogen (N_α) : 3.5%
 N_α / NT : 0.29
 Sulfuric ash : 13.0%
 pH (2% in solution) : 7.3
 Total carbohydrates : 0.4%.
 Chlorides (as NaCl) : 0.1%
 Loss on drying : ≤ 6.0%

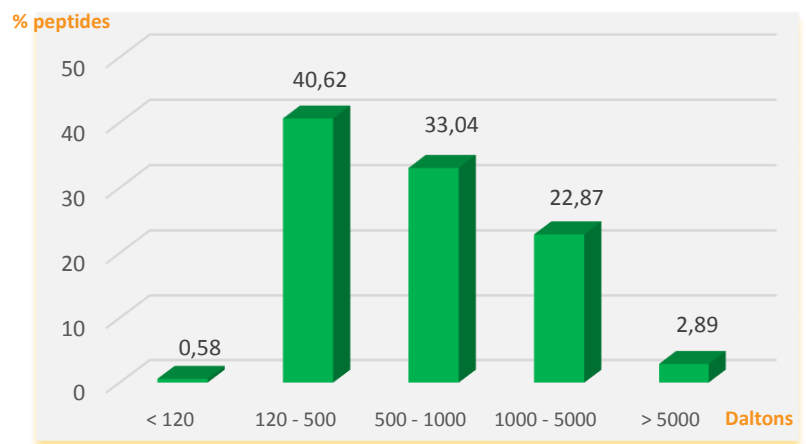
Standard packaging

25 kg carton ; other formats inquire.
 Delivered with Certificate of Analysis, Certificate of Origin, **Kashrus** certificate. Separate non-Animal, GMO and allergen statements available upon request

Amino acid distribution (mg/g)

	Total amino acids		Total amino acids
Aspartic acid	54.6	Methionine	17.2
Threonine	32.3	Isoleucine	39.6
Serine	41.4	Leucine	69.9
Glutamic acid	167.0	Tyrosine	29.5
Proline	81.4	Phenylalanine	39.1
Glycine	14.8	Histidine	21.4
Alanine	23.8	Lysine	59.7
Cysteine	1.90	Arginine	28.2
Valine	50.3	Tryptophan	10.2

Molecular weight distribution (Daltons)



Chemical / Biochemical characteristics

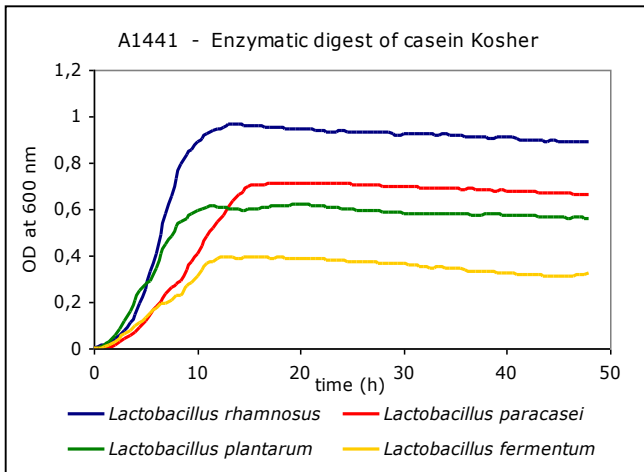
Nitrites : negative
 Proteoses : positive
 Indole : negative
 Tryptophan : positive
 Undigested proteins : negative
 Calcium : < 0.08%

Sanitary / Regulatory statement

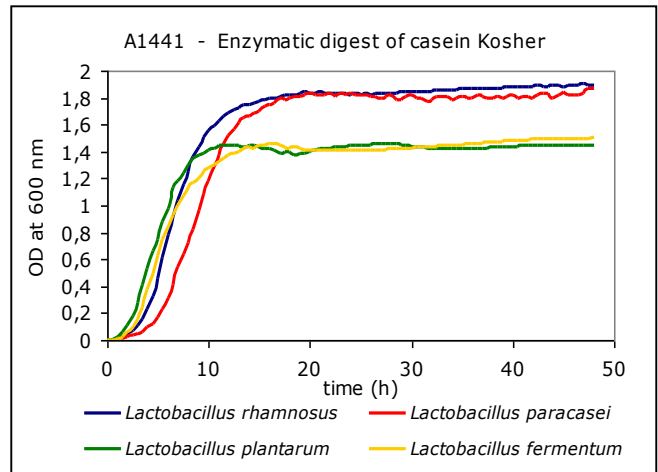
Given the origins and processing of this product, it remains outside of the scope of European Pharmacopoeia directives 1999/82/EC, 1999/104/EC, 2000/418/EC & 2011/C 73/01, as well as as well as the Note for Guidance EMEA/410/01 Rev. 3. The casein used as a starting material is sourced from animals in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

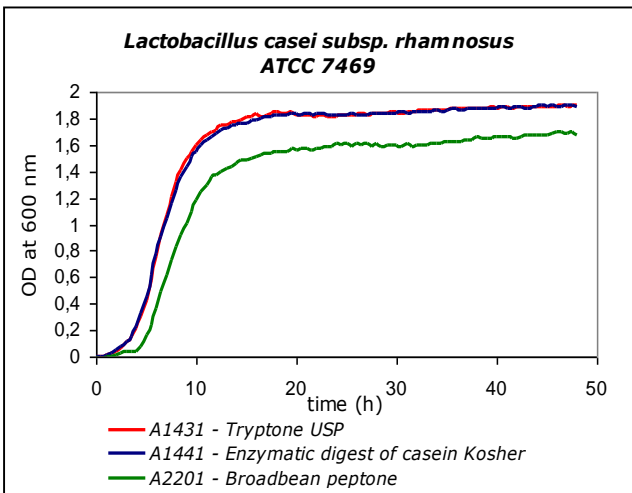
OBSERVED MICROBIAL GROWTH POTENTIAL :



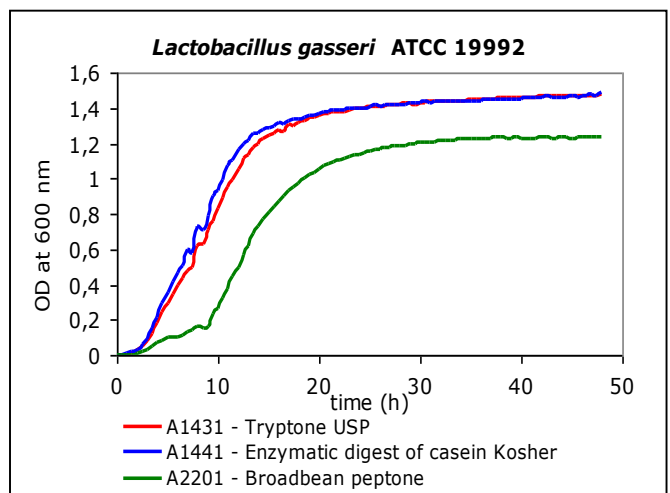
Inoculum 10^6 cfu / mL
Growth medium: 3 % peptone + 0.25 % glucose



Inoculum 10^6 cfu / mL
Growth medium: modified MRS Medium



Inoculum 10^6 cfu / mL
Growth medium: modified MRS Medium
Comparison to standard Tryptone and one non-animal peptone



Inoculum 10^6 cfu / mL
Growth medium: modified MRS Medium
Comparison to standard Tryptone and one non-animal peptone

This peptone demonstrates excellent growth of a wide variety of microorganisms and can be used in various applications as an all-purpose substrate. Equivalency tests suggest this product can be used in the place of standard Tryptone USP when applications call for the elimination of porcine pancreatine. Results may differ depending on individual laboratory conditions and for other genera, species and strains.

Kosher certification : *Orthodox Union*
Rabbi Menachem Adler, Administrator



Storage : Keep in original packaging when not in use, in a dry area ideally between 10 and 35°C. Avoid direct sunlight. Hygroscopic product.

Halal certification : inquire to Solabia

Produced under **ISO 9001 v 2015** certification



Expiry date : 5 years from date of manufacture.

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

CoA available online : use product code **A144100** + lot number.
For **Kosher Pareve Halal** version, use product code **A144600** + lot number

V. 08/2019

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