

Description

- Origin :** Enzymatic Digest of Casein **KH (Kosher, Halal)** is obtained by an enzymatic digestion of casein of Oceanic (NZ or AUS) origin using all Kosher & Halal components. The product is considered **Kosher Dairy** due to the presence of milk derived casein.
- 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 cannot 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 produce a **Kosher/Halal** equivalent to Tryptone USP, but without the pancreatin, 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 (Nα) : 3.5%
Nα / 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 / Storage

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

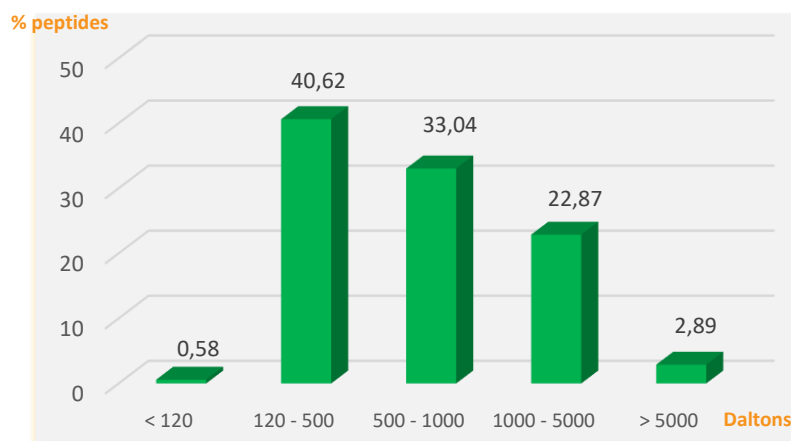
Keep in original packaging when not in use, in a dry area ideally between 10 and 35°C. Avoid direct sunlight. Hygroscopic product.
Expiry date : 5 years from date of manufacture.

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 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%).

Molecular weight distribution (Daltons)



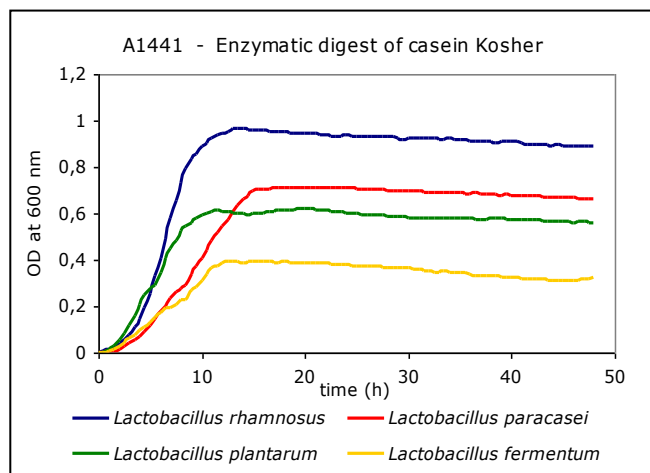
Chemical / Biochemical characteristics

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

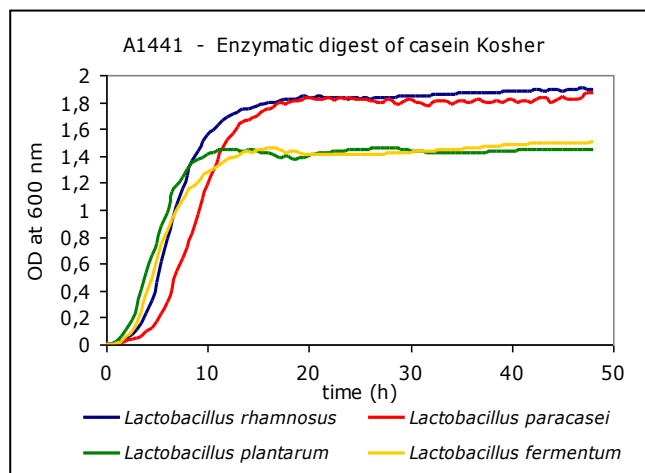
Amino acid distribution (mg/g)

| | 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 |

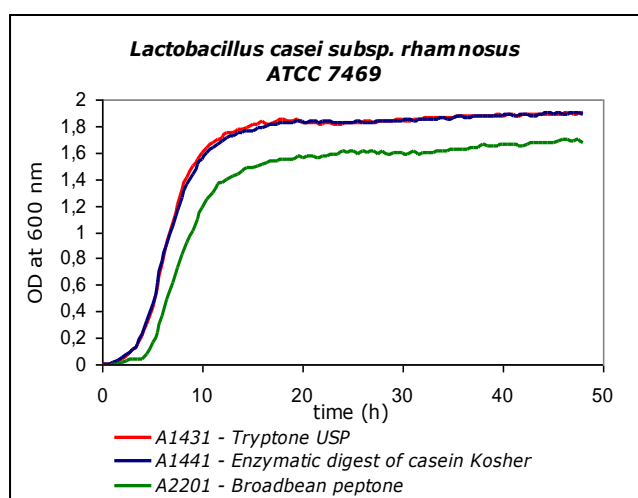
OBSERVED MICROBIAL GROWTH POTENTIAL* :



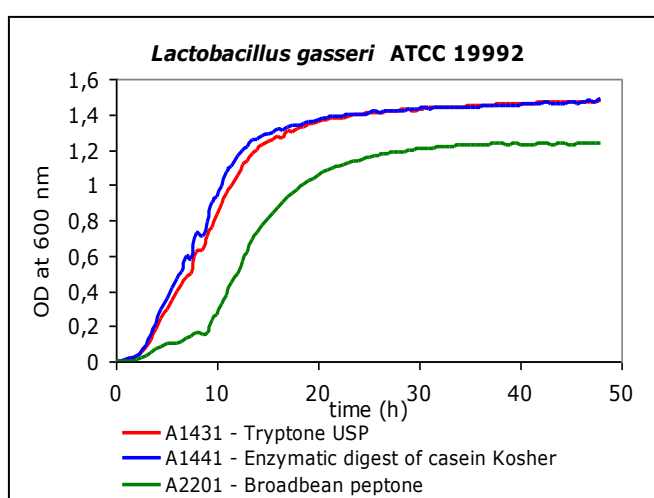
Inoculum 10^6 cfu / mL
Growth medium: 3 % peptone + 0.25 % glucose



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

*The identical A144100, Enzymatic digest of Casein Kosher was used for the bacterial growth tests. 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 pancreatin. Results may differ depending on individual laboratory conditions and for other genera, species and strains.



Certifications profile :

Produced under **ISO 9001 v 2015** certification



Manufacturing site and quality system open to audits by qualified customers*.

CoA available online : use product code **A144600** + lot number - <https://www.solabia.com/coa>

Allergen considerations : **YES** (casein) GMO issues : **NO**

Kosher certification : Yes

Orthodox Union ; New York, NY USA.
Rabbi Menachem Adler, Administrator

Halal certification : Yes



HFFIA ; The Hague, Netherlands.
Inquire with Solabia for more information

V. 02/2021

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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.

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