

Description

- Origin :** Broadbean Peptone KPH is obtained by enzymatic hydrolysis of broadbean protein concentrates.
- Context :** this peptone is a **Kosher Pareve Halal** certified peptone. It is animal free and is unconcerned by GMO issues (European Directive 2001/18/CE). It is, to the best of our knowledge, non-allergenic and not subject to mandatory declaration acc. to Annex IIIa of the EU directive 2003/89/EC, updated with 2006/142/EC. It is identical to the standard Kosher DE reference A220100, the sole difference being the moment of production after Koshering and Halal preparation steps.
- Application :** This peptone demonstrates excellent growth of a wide variety of microorganisms, particularly lactic acid bacteria (LAB) and may serve as a substitute for meat-based peptones in certain circumstances, in both industrial fermentation media, diagnostic applications and in cell culture.



Physical properties

- Appearance :** beige 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 (N_T) :** 10.0%
α-amino nitrogen (N_α) : 2.8%
N_α / N_T : 0.28
Sulfuric ash : 12.6 %
pH (2% in solution) : 6.9
Total carbohydrates : approx. 11.7%
Chlorides (as NaCl) : 0.3%
Loss on drying : ≤ 6.0%

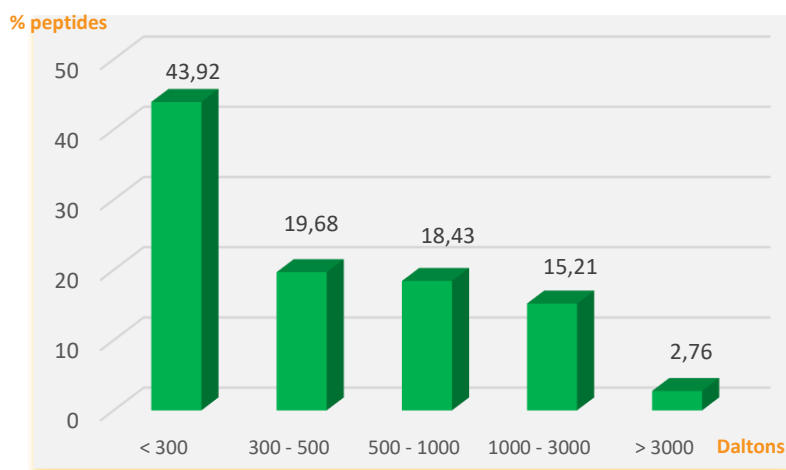
Standard packaging

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

Amino acid (AA) distribution (mg/g)

| | Total AA | Free AA | | Total AA | Free AA |
|---------------|----------|---------|---------------|----------|---------|
| Aspartic acid | 73.0 | 2.24 | Methionine | 10.5 | 0.51 |
| Threonine | 24.0 | 2.71 | Isoleucine | 26.5 | 1.82 |
| Serine | 32.2 | 3.13 | Leucine | 26.5 | 7.62 |
| Glutamic acid | 117.0 | 6.09 | Tyrosine | 26.0 | 2.50 |
| Proline | 28.0 | 1.06 | Phenylalanine | 31.5 | 5.70 |
| Glycine | 26.0 | 0.64 | Histidine | 17.0 | 2.32 |
| Alanine | 30.5 | 2.17 | Lysine | 41.0 | 3.17 |
| Cysteine | 5.6 | 1.20 | Arginine | 63.5 | 18.06 |
| Valine | 29.0 | 4.57 | Tryptophan | 4.5 | 0.00 |

Molecular weight distribution (Daltons)



Sanitary / Regulatory statement

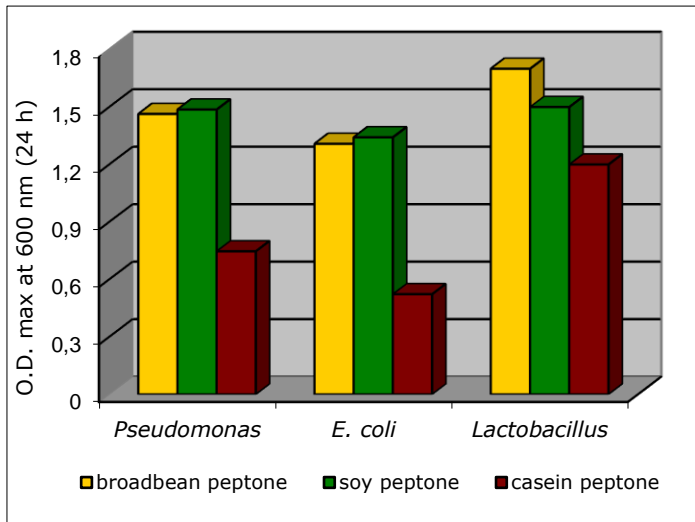
This plant peptone is classified animal-free by SOLABIA S.A.S. Based on the manufacturing protocol, we attest that no animal raw materials are prescribed for use in the production this product nor are any of the raw materials derived from animal products. Also, to the best of our knowledge, the product contains no genetically modified organisms as defined by current legislation for labelling (absence = less than 0.9%).

Storage

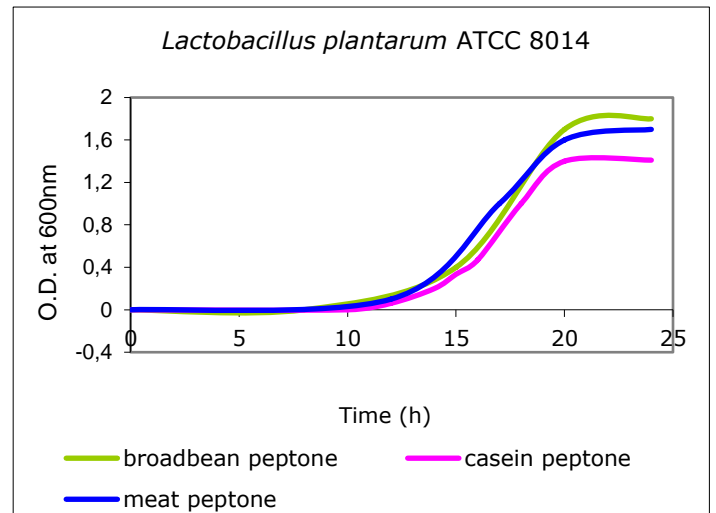
Keep in original packaging when not in use, in a dry area ideally between 10 and 35°C. Avoid direct sunlight. Hygroscopic product. Expiry date : 5 years from date of manufacture.

OBSERVED MICROBIAL GROWTH POTENTIAL :

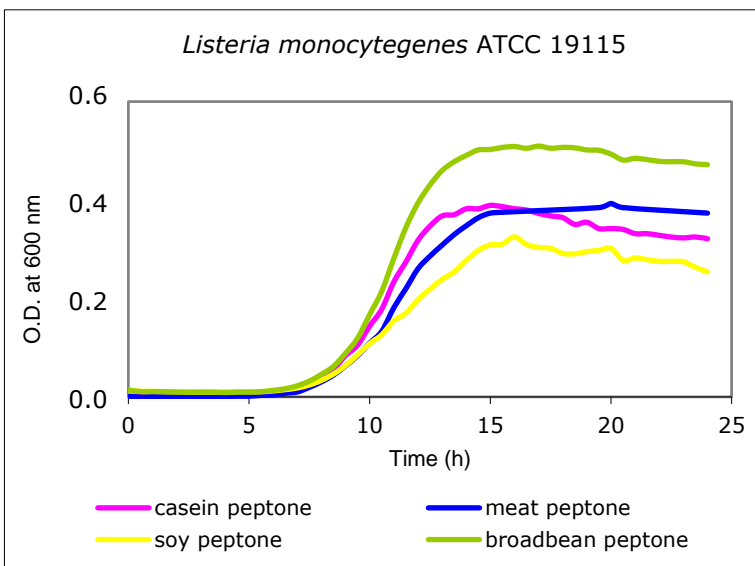
Standard A220100 used in microbial growth curves



Inoculum 10^8 cfu / mL
 Growth medium: 3 % peptone + 0.25 % glucose
 (*Pseudomonas* & *E. coli*)
 Modified MRS medium, pH 6.4 (*Lactobacillus*)



Inoculum 10^2 cfu / mL
 Modified MRS medium, pH 6.4



Laboratory tests demonstrate excellent growth of lactic acid bacteria and *Enterobacteria*, used as either a replacement for bovine substrates or as a stand-alone peptone. Results may differ depending on individual laboratory conditions and for other genera, species and strains.

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



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 **A223100** + lot number
<https://www.solabia.com/coa>

Allergen considerations : **NO**

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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