

## Description

- Origin :** Lupin Peptone is obtained by enzymatic hydrolysis of lupin flour protein.
- Context :** this peptone is classified animal free and is unconcerned by GMO issues (European Directive 2001/18/CE), but cannot be considered allergen-free due to the presence of lupin proteins (Annex IIIa of the EU directive 2003/89/EC, updated with 2006/142/EC). This reference is **Kosher DE** and **Halal** certified. A **Kosher Pareve Halal version** is available upon request and forecasting under reference A233100.
- Application :** clear and stable in solution, and dominated by low molecular weight peptides, Lupin Peptone has varied applications in industrial fermentation, biopharmaceuticals and in cell culture, where the replacement of animal products is of relevant concern.



## Physical properties

Appearance : clear brown 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<sub>T</sub>) : 11.0%  
 α-amino nitrogen (N<sub>α</sub>) : 1.7%  
 N<sub>α</sub> / N<sub>T</sub> : 0.15  
 Sulfuric ash : 16.2%  
 pH (2% in solution) : 7.0  
 Total carbohydrates : approx. 17.0%  
 Loss on drying : ≤ 6.0%

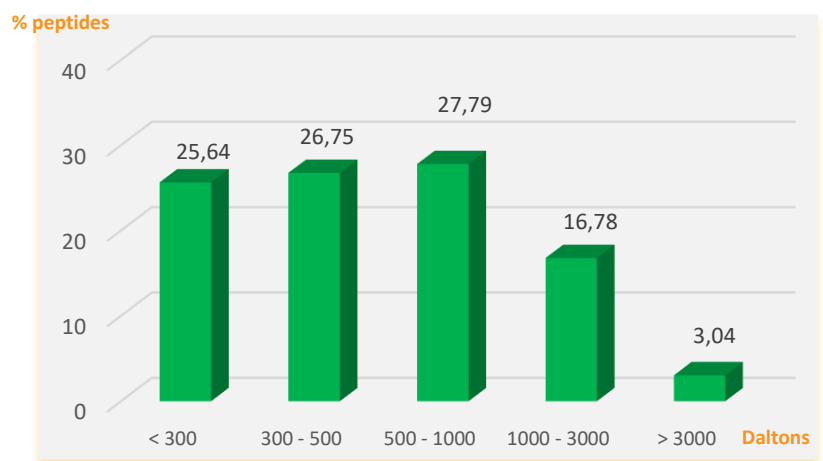
## Storage

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

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

	Total AA	Free AA		Total AA	Free AA
Aspartic acid	59.6	1.20	Methionine	4.2	1.70
Threonine	21.0	0.80	Isoleucine	23.2	0.70
Serine	30.0	1.70	Leucine	37.0	2.30
Glutamic acid	125.0	3.60	Tyrosine	27.0	2.00
Proline	25.5	1.70	Phenylalanine	20.6	2.50
Glycine	22.2	0.70	Histidine	13.5	1.40
Alanine	19.2	1.40	Lysine	26.0	1.20
Cysteine	6.8	-	Arginine	57.0	8.70
Valine	23.0	1.50	Tryptophan	5.0	-

## Molecular weight distribution (Daltons)



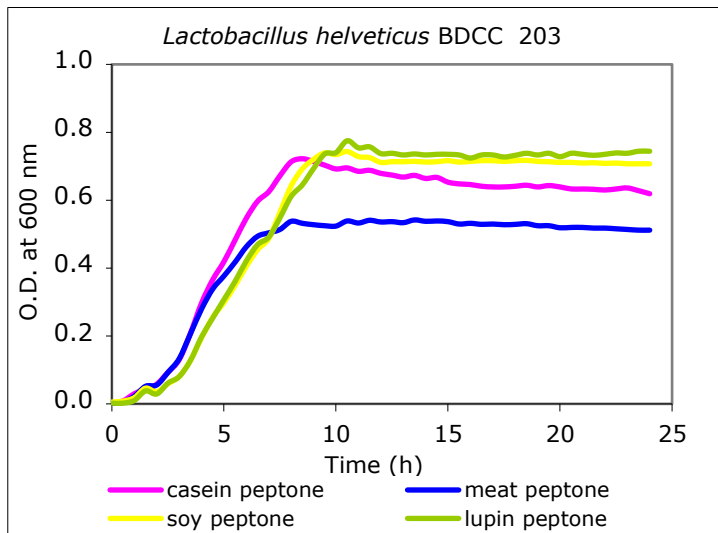
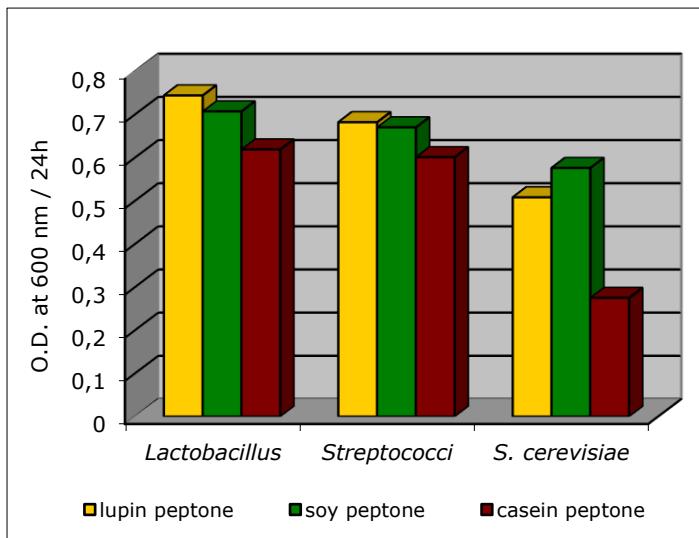
## Standard packaging

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

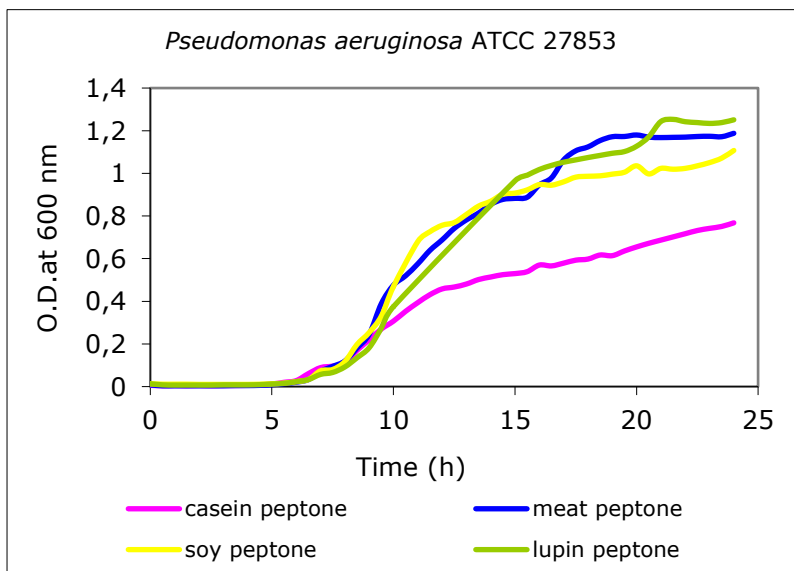
## Sanitary / Regulatory statement

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%).

## OBSERVED MICROBIAL GROWTH POTENTIAL :



Inoculum  $10^8$  cfu/mL  
 Growth medium : 3% peptone + 0.25% glucose  
 BDCC = Solabia internal strain collection



Inoculum  $10^4$  cfu/mL  
 Culture medium : 1% peptone + 0.5% NaCl

Laboratory tests demonstrate good growth of a wide variety of microorganisms, including lactic acid bacteria. It can be recommended for either a replacement for bovine substrates or as an alternative to soy. 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 **A230100** + lot number <https://www.solabia.com/coa>

Allergen considerations : **YES (Lupin)**

GMO issues : **NO**

**Kosher certification : Yes**

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

**Halal certification : Yes A230100**  
**Yes A233100**



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

The information presented in this document is submitted in good faith based on internal testing performed at Solabia S.A.S. and represents the best of our knowledge at the present time. It is provided as a guide and no warranty, implied or otherwise is associated with this data, nor is any liability assumed for patent infringement. All data represents typical analyses not to be taken for exact specifications. \*Audits may involve fees dependent on volume of business.

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.

V. 02/2023