

## Description

- Origin :** Lupin Peptone KPH is obtained by enzymatic hydrolysis of lupin flour protein.
- Context :** this peptone an animal free, **Kosher Pareve and Halal** certified product. It 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). It is identical to the standard **Kosher DE** reference A230100, the sole difference being the moment of production after Koshering and Halal preparation steps.
- 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

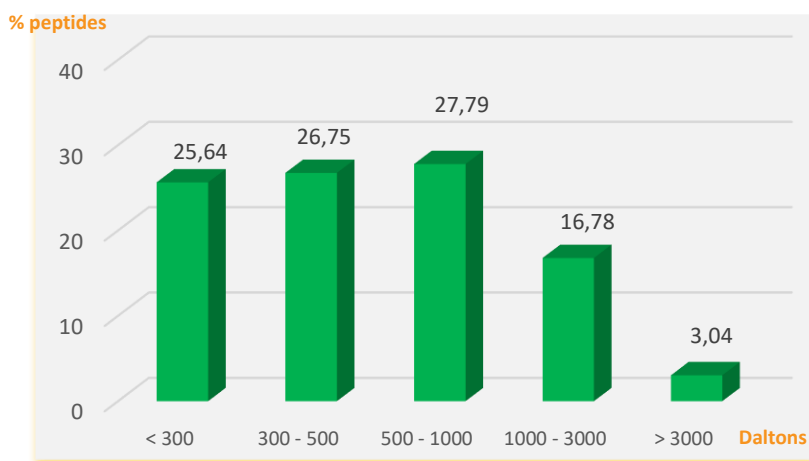
## Microbiological controls

Total aerobic mesophilic flora ≤ 5000 cfu/g

## Chemical analysis

Total nitrogen (N<sub>T</sub>) : 11.0%  
 $\alpha$ -amino nitrogen (N <sub>$\alpha$</sub> ) : 1.7%  
 N <sub>$\alpha$</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%

## Molecular weight distribution (Daltons)



## 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

## 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)

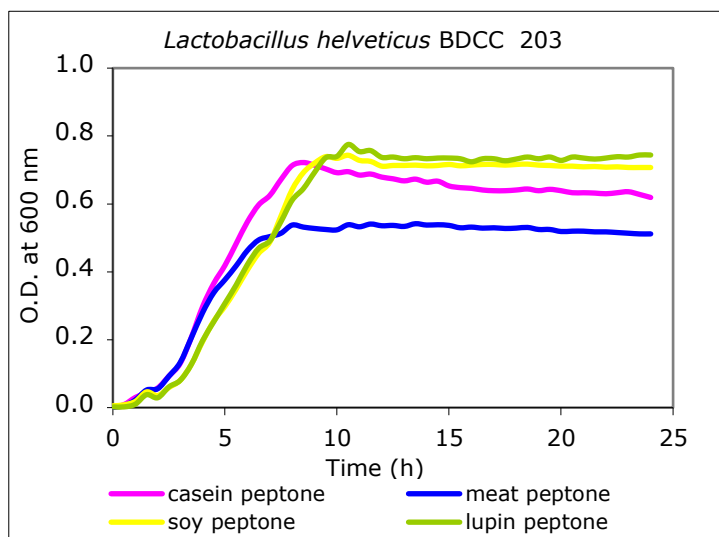
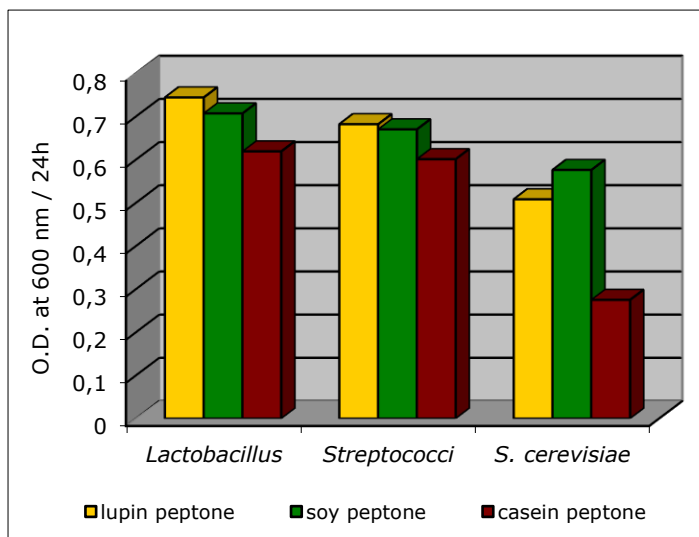
	Total AA	Free AA		Total AA	Free AA
Aspartic acid	59.6	1.20	Methionine	4.2	1.70
Threonine	21.0	0.80	Isoleucine	23.2	0.70
Serine	30.0	1.70	Leucine	37.0	2.30
Glutamic acid	125.0	3.60	Tyrosine	27.0	2.00
Proline	25.5	1.70	Phenylalanine	20.6	2.50
Glycine	22.2	0.70	Histidine	13.5	1.40
Alanine	19.2	1.40	Lysine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

## 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 :

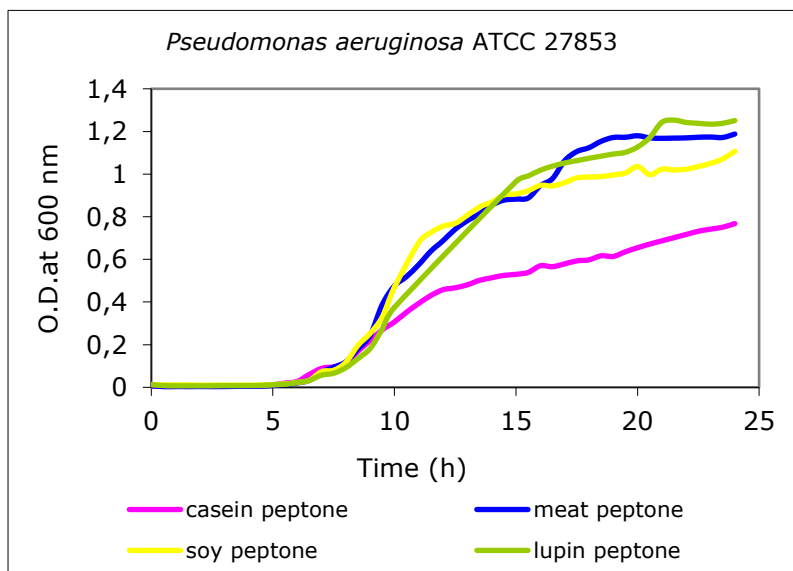
Standard A230100 used in growth curves



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 **A233100** + 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**



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

V. 02/2021

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