

## Description

- Origin :** Papaic Digest of Soybean Meal USP is a peptone obtained from defatted soybean flour, using Identity-Preserved (IP) raw materials as it pertains to Genetically Modified Organisms (GMO). The digestive enzyme papain is not concerned by GMO issues.
- Context :** this peptone is animal free, GMO-secure (GMO-free according to the European Directive 2001/18/CE) but cannot be considered allergen-free due to the presence of soy proteins (Annex IIIa of the EU directive 2003/89/EC, updated with 2006/142/EC). This product is certified **Kosher DE**.
- Application :** characterized by a relatively high carbohydrate count, this peptone is produced for primarily diagnostic purposes, in terms of density, particle size and clarity. It leads to the rapid and luxuriant growth of many microorganisms, including yeasts and molds.



## 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<sub>T</sub>): 10.3%  
α-amino nitrogen (N<sub>α</sub>): 2.1%  
N<sub>α</sub> / N<sub>T</sub> : 0.20  
Sulfuric ash : 13.8%  
pH (2% in solution): 7.0  
Total carbohydrates : approx. 20.0%  
Chlorides (as NaCl): 0.2%  
Loss on drying ≤ 6.0%

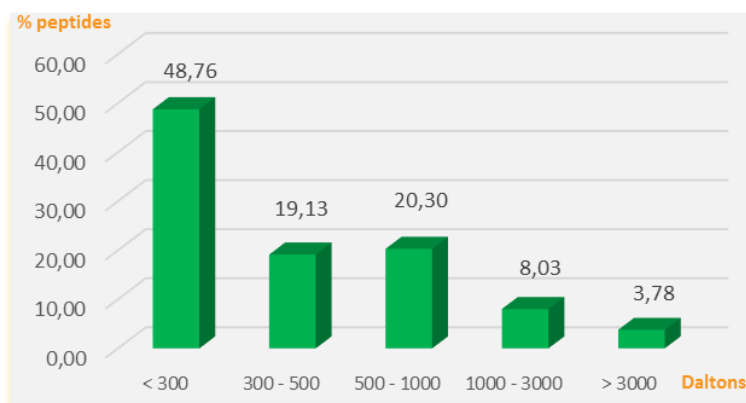
## Chemical characteristics

Nitrates : negative  
Indole : negative  
Aflatoxins (B1, B2, G1, G2) < 2 µg / kg

## Amino acid distribution (mg/g)

|               | Total amino acids |               | Total amino acids |
|---------------|-------------------|---------------|-------------------|
| Aspartic acid | 78.20             | Methionine    | 8.20              |
| Threonine     | 23.90             | Isoleucine    | 28.20             |
| Serine        | 31.80             | Leucine       | 47.10             |
| Glutamic acid | 124.0             | Tyrosine      | 25.50             |
| Proline       | 33.40             | Phenylalanine | 31.20             |
| Glycine       | 47.70             | Histidine     | 36.40             |
| Alanine       | 26.90             | Lysine        | 39.10             |
| Cysteine      | 8.20              | Arginine      | 86.50             |
| Valine        | 28.20             | Tryptophan    | 6.00              |

## 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

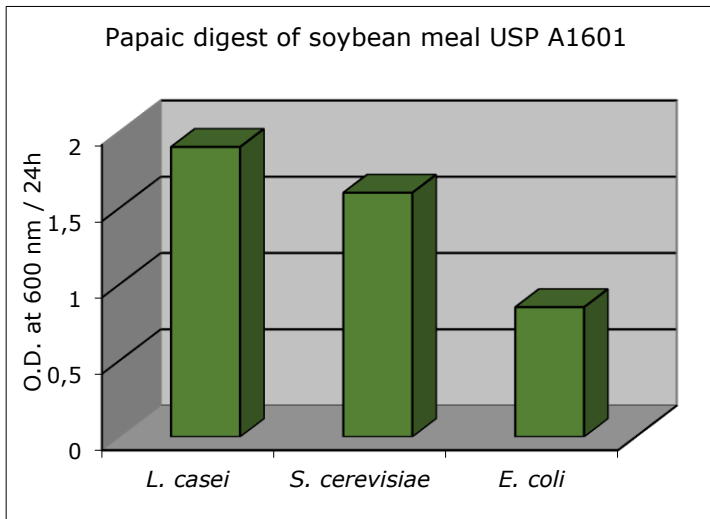
## Standard packaging

25 kg carton; other formats inquire.  
Delivered with Certificate of Analysis, Certificate of Origin. Separate non-animal, GMO & Allergen statements available upon request.

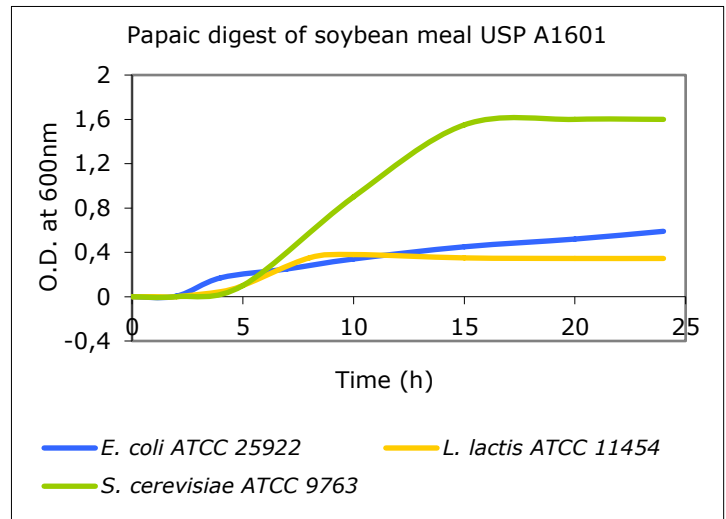
## Sanitary / Regulatory statement

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%).

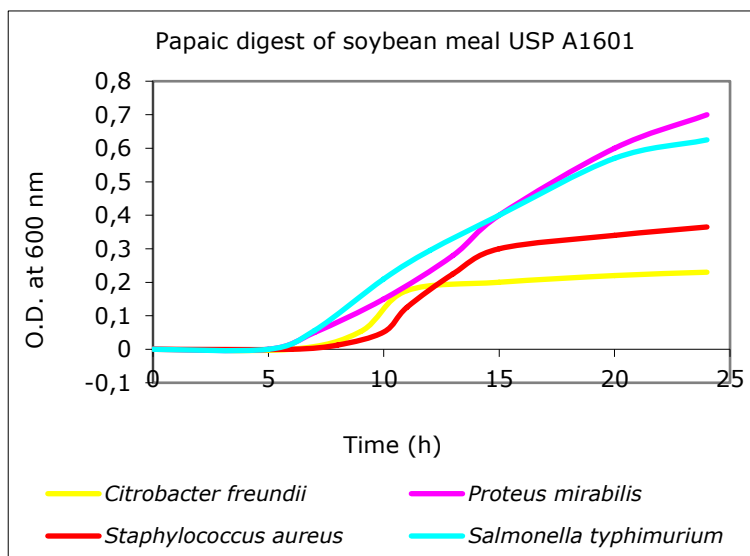
## OBSERVED MICROBIAL GROWTH POTENTIAL :



Inoculum  $10^8$  cfu / mL  
 Growth medium:  
 Modified MRS medium (*Lactobacillus*)  
 Modified Sabouraud medium (*S. cerevisiae*)  
 Modified Luria Bertani medium (*E. coli*)



Inoculum  $10^6$  cfu/mL  
 Growth medium :  
 1% peptone + 0.5% NaCl (*E. coli* & *L. lactis*)  
 Growth medium :  
 1% peptone + 2% glucose (*S. cerevisiae*)



Inoculum  $10^3$  cfu/mL  
 Culture medium : 1% peptone + 0.5% NaCl

Laboratory tests demonstrate the balanced content of essential amino acids and vitamins result in excellent overall growth for a wide variety of microorganisms. 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 **A160100** + lot number  
<https://www.solabia.com/coa>

Allergen considerations : **YES**

GMO issues : **NO**  
 (use of IP soy)

**Kosher certification : Yes**

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

**Halal certification : No**



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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