

Description

- Origin :** Soy Evolution is obtained from defatted soybean flour, using Identity-Preserved (IP) raw materials as it pertains to Genetically Modified Organisms (GMO). The digestive enzyme system consists of a cascade of amino and endopeptidases in addition to a cysteine protease of plant origin. This peptone is unique in its manufacturing procedure, unlike any other peptone manufactured by Solabia.
- 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 **Kosher DE** and **Halal** certified. An identical **Kosher Pareve Halal** certified reference is available under code **A163600**.
- Application :** the proprietary composition of this peptone allows the liberation of a large quantity of reducing sugars, which contribute to superior growth, especially in fermentation applications. Its development was traced using a recently developed in-house evaluation mechanism dedicated the evaluation and characterization of peptone performance.



Physical properties

Appearance : beige powder
 Stability (2% solution) : stable
 Solubility in water at 2% : total

Microbiological controls

Total aerobic mesophilic flora ≤ 5000 cfu/g

Chemical analysis

Total nitrogen (N_T) : 10.1%
 α-amino nitrogen (N_α) : 3,0%
 N_α / N_T : 0.29
 Sulfuric ash : 12.0%
 pH (2% in solution) : 7.1
 Total carbohydrates : approx. 15.0 - 20.0%
 Chlorides (as NaCl) : 2.5%
 Loss on drying ≤ 6.0%

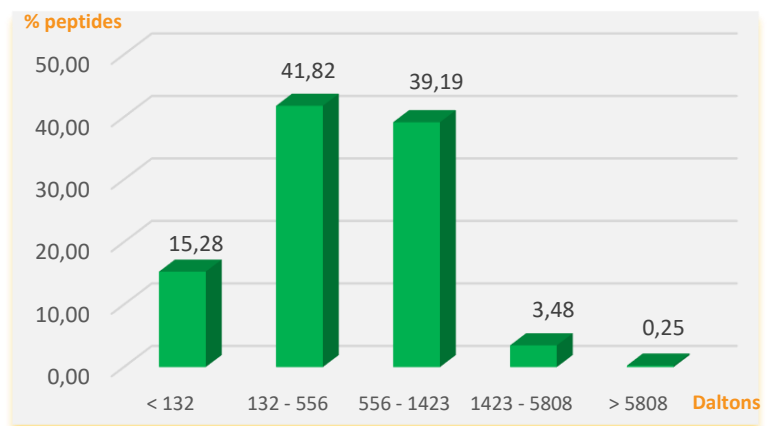
Amino acid (AA) distribution (mg/g)

	Free AA	Total AA		Free AA	Total AA
Aspartic acid	5,92	62,35	Methionine	2,26	9,01
Threonine	5,22	21,69	Isoleucine	6,32	25,03
Serine	6,28	26,53	Leucine	15,81	38,94
Glutamic acid	10,02	105,25	Tyrosine	6,26	18,78
Proline	2,09	25,49	Phenylalanine	8,84	26,28
Glycine	8,96	28,83	Histidine	2,03	12,37
Alanine	18,17	32,59	Lysine	8,14	34,07
Cysteine	0,25	9,25	Arginine	13,28	36,88
Valine	6,86	26,49	Tryptophan	< 0,01	5,66

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.

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 of 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%).

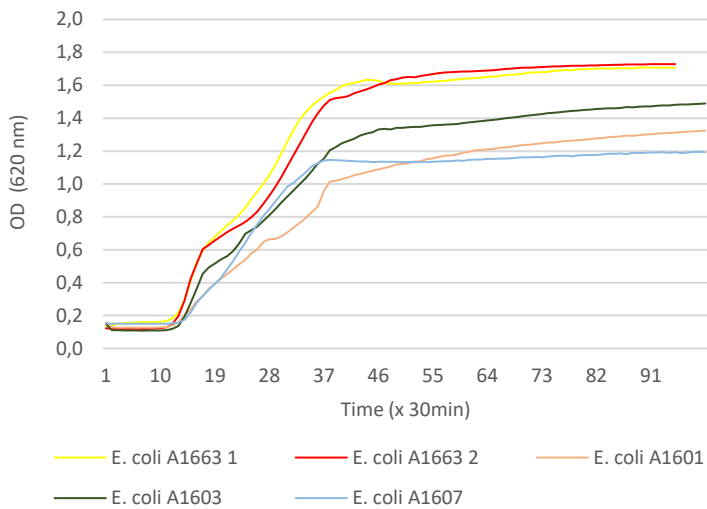
Storage

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 : 3 years from date of manufacture.

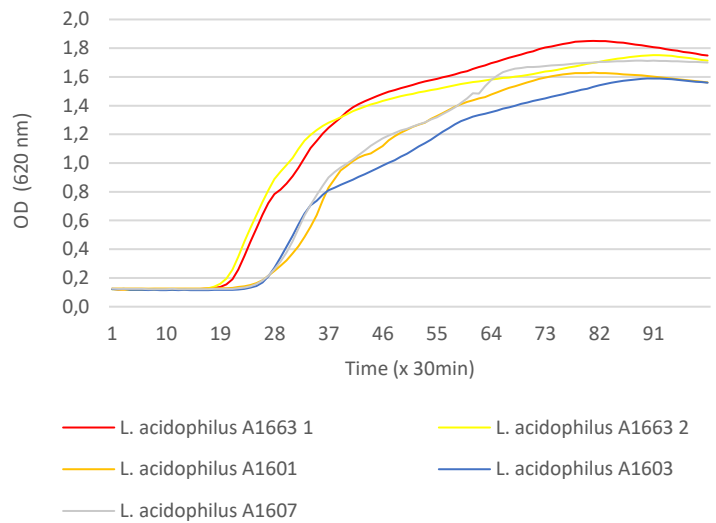
OBSERVED MICROBIAL GROWTH POTENTIAL :

Comparisons in Bioscreen* with other Solabia soy peptones

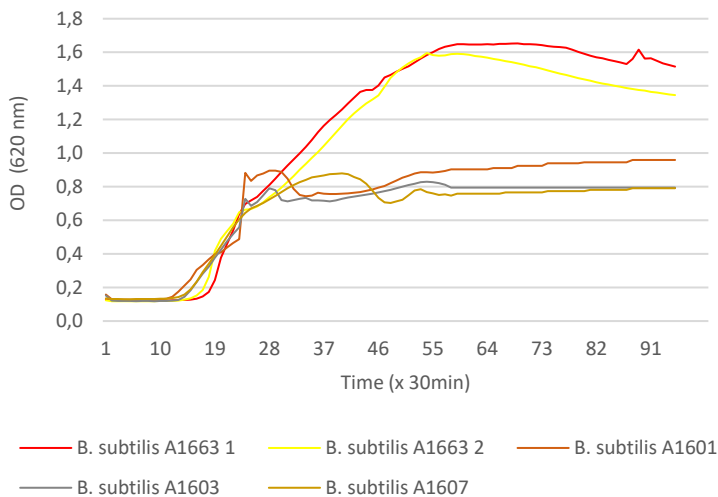
Growth curve of *Escherichia coli*



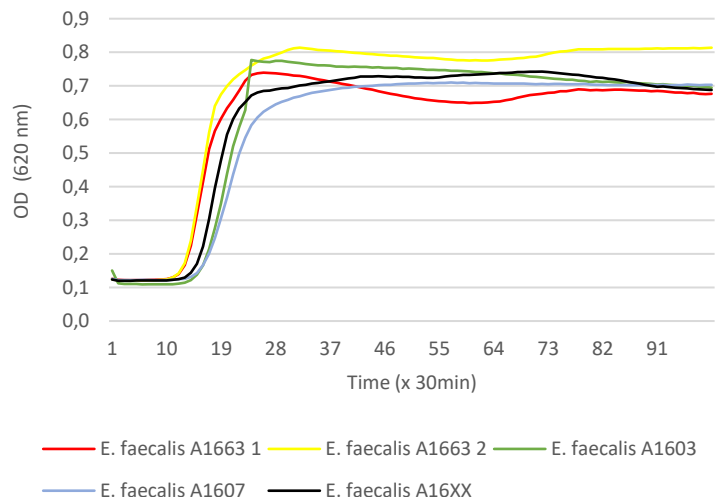
Growth curve of *Lactobacillus acidophilus*



Growth curve of *Bacillus subtilis*



Growth curve of *Enterococcus faecalis*



*Tests performed in microplates, media composition 30 g / L with no added sugar
Standard ATCC® or internal strain collection used in comparisons



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 **A166300** + 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 : Yes A166300
Yes A163600



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

V. 02/2023

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.

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