BROADBEAN PEPTONE – A220100

Description

Origin : Broadbean Peptone is obtained by enzymatic hydrolysis of broadbean protein concentrates.

Context : this peptone is certified 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. Product is **Kosher DE** certified. An identical **Kosher Pareve Halal** reference also available under reference **A223100**.

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

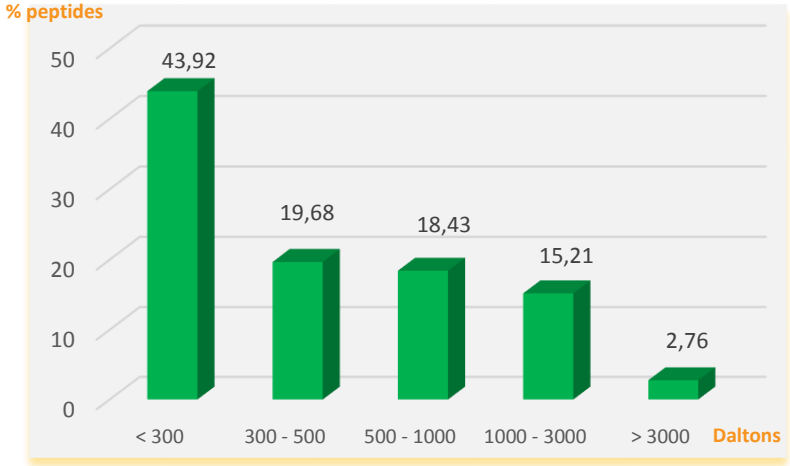
Microbiological controls

Total aerobic mesophilic flora ≤ 5000 cfu/g

Chemical analysis

Total nitrogen (N_T) : 10.0%
α-amino nitrogen (Nα) : 2.8%
Nα / 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%

Molecular weight distribution (Daltons)



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

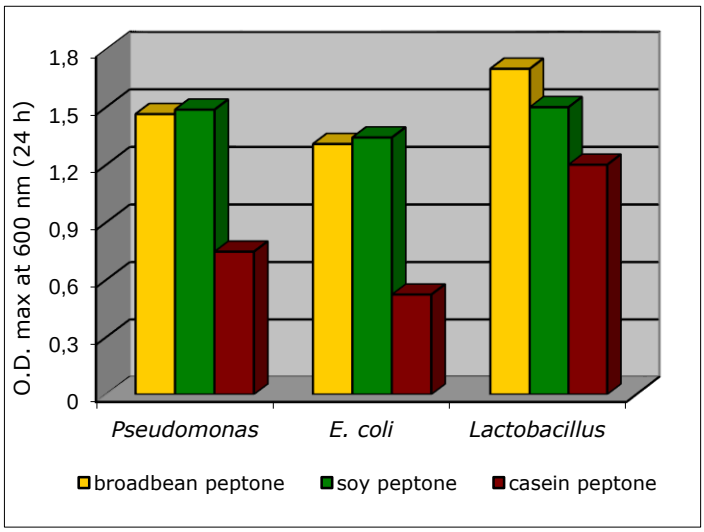
Sanitary / Regulatory statement

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%).

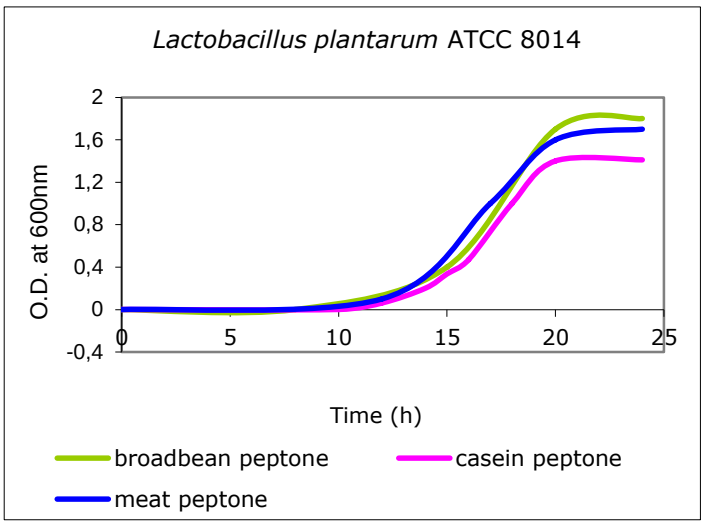
Storage

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.

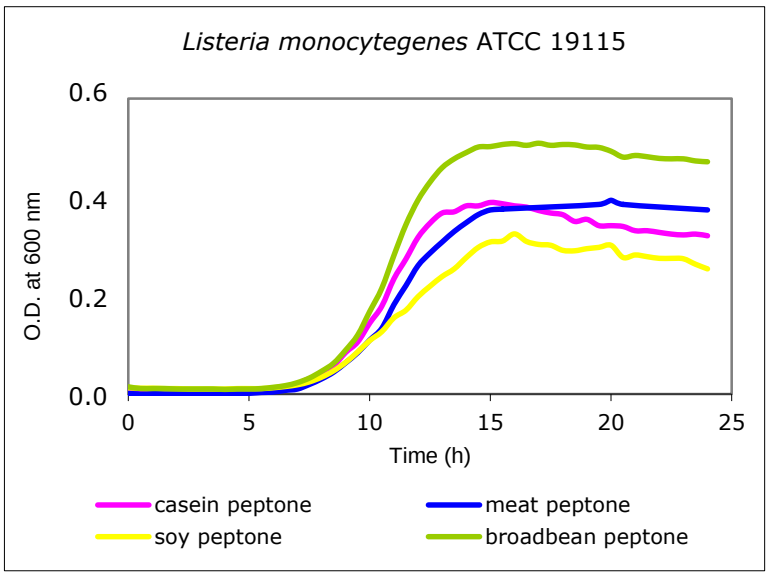
OBSERVED MICROBIAL GROWTH POTENTIAL :



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



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

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.

Kosher certification : *Orthodox Union*
Rabbi Menachem Adler, Rabbinic Coordinator

Halal certification : HFFIA, The Hague, Netherlands. Inquire to Solabia

Produced under **ISO 9001 v 2015** certification

Manufacturing site and quality system open to audits by qualified customers. Inquire with Solabia.

CoA available online : use product code **A220100** + lot number
For Kosher Pareve Halal reference, use product code **A223100** + lot number

V. 05/2019

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