

Edition 2020/09
Replaces Ed.2018/07



Plant Peptone E1 19025

Organotechnie® S.A.S.

27, avenue Jean Mermoz
93120 La Courneuve, France
Tél : +33 (0) 1 49 92 87 50
Fax : +33 (0) 1 49 92 87 51

e-mail : info@organotechnie.com
web : <http://www.organotechnie.com>

Definition

Plant Peptone E1 is manufactured by a controlled enzymatic hydrolysis of potato proteins.

Description

Fine cream powder.

Plant Peptone E1 contains a mix of peptides and free amino acids.

Plant Peptone E1 is manufactured with raw materials from vegetal origin only.

Plant Peptone E1 is guaranteed "non GMO" according to the European Regulations 1829/2003 and 1830/2003.

Use

Source of organic nitrogen and growth factors recommended in media for industrial fermentation.

Physico-chemical characteristics

	Standard
Solubility in water at 1 %	Partial to Complete
pH (1 % solution)	6.8 – 7.5
Loss on drying	≤ 6.0 %
Total nitrogen TN	10.4 – 11.4 %
α-amino nitrogen AN	5.1 – 6.1 %
AN/TN x 100	45 – 60
Residue on ignition	≤ 25.0 %
Chloride (as NaCl)	≤ 16.0 %

Microbiology

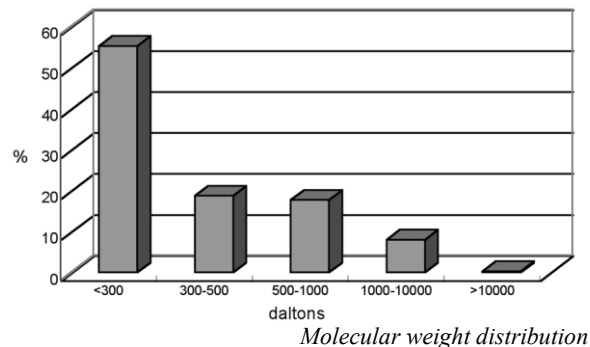
	Standard
Total aerobic microbial count	≤ 10 000 /g
Coliforms	≤ 10 /g
<i>Escherichia coli</i>	Absence /g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence / 10 g
Yeast and moulds	≤ 20 /g

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Typical data

Molecular weight distribution	g/100g
> 10 000 daltons	0.3
1 000 - 10 000 daltons	8.0
500 - 1 000 daltons	17.7
300 - 500 daltons	18.7
< 300 daltons	55.3

Amino Acids		Free (g/100g)
Alanine	Ala	1,5
Arginine	Arg	2,3
Aspartic Acid	Asp	1,3
Cysteine	Cys	0,05
Glutamic acid	Glu	1,9
Glycine	Gly	0,8
Histidine + Glutamine	His + Gln	1,6
Isoleucine	Ile	2,2
Leucine	Leu	4,9
Lysine	Lys	2,9
Méthionine	Met	1,13
Phénylalanine	Phe	2,8
Proline	Pro	0,2
Sérine + Asparagine	Ser + Asn	3,2
Thréonine + Citruline	Thr + Cit	2,5
Tyrosine	Tyr	0,63
Tryptophane	Trp	2,3
Valine	Val	2,8



Documentation

The certificate of analysis and the sanitary certificate are supplied with each delivery.

Packing and storage

25 kg net corrugated board box with inner polyethylene bags.

Upon request : 5kg plastic drum

Keep in original packaging closed when not in use, at room temperature in a dry area.

Hygroscopic product.

Best before: 3 years (under validation)

Health and safety information

Dusty powder.

Avoid inhalation.

The information contained in this publication is based on our own research and development work and is to the best of our knowledge true and accurate.

Users should, however, conduct their own tests to determine the suitability of our products for their own specific purposes. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for the infringement of any patents.