

Edition 04/2008
Replace Ed. 04/2005

Plant Peptone E1 19025

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.

Use

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

Physico-chemical characteristics

	Standard
Solubility in water at 1 %	Complete
pH (1 % solution)	6.8 - 7.5
Loss on drying	≤ 6.0 %
Total nitrogen TN	10.0 - 11.0 %
α-amino nitrogen AN	5.0 - 6.0 %
AN/TN x 100	48 - 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
Yeasts and moulds	≤ 20 /g



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Plant Peptone E1 / 19025

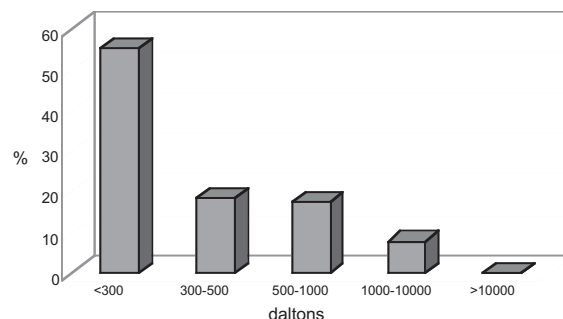
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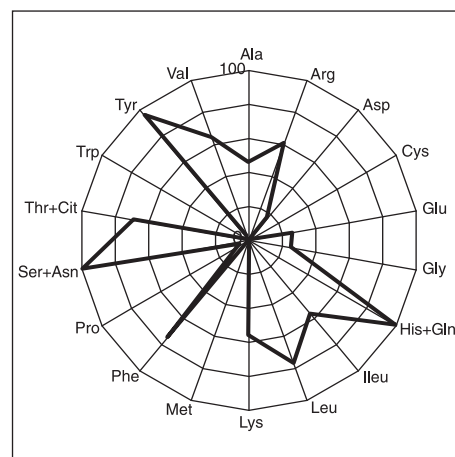
Typical data

Molecular weight distribution	g / 100 g
> 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



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	3,3	1,5	45,6
Arginine	Arg	3,8	2,3	60,3
Aspartic acid	Asp	7,8	1,3	17,0
Cysteine	Cys	-	0,05	-
Glutamic acid	Glu	7,3	1,9	26,2
Glycine	Gly	3,2	0,8	25,7
Histidine + Glutamine	His + Gln	1,6	1,6	100,0
Isoleucine	Ileu	3,8	2,2	57,5
Leucine	Leu	6,3	4,9	77,8
Lysine	Lys	5,1	2,9	56,0
Methionine	Met	-	1,13	-
Phenylalanine	Phe	3,7	2,8	74,5
Proline	Pro	3,4	0,2	5,6
Serine + Asparagine	Ser + Asn	3,2	3,2	100,0
Threonine + Citrulline	Thr + Cit	3,7	2,5	68,1
Tryptophane	Trp	-	0,63	-
Tyrosine	Tyr	2,4	2,3	95,8
Valine	Val	4,3	2,8	63,9



Amino Acids F/T x 100

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: 5 kg 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.

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