

Edition 04/2008
Replace Ed. 04/2005

Wheat Peptone E1 19559

Definition

Wheat Peptone E1 is manufactured by a controlled enzymatic hydrolysis of wheat proteins.

Description

Fine yellow-beige powder easily soluble in water.

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

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

Use

Source of organic nitrogen recommended in media for industrial fermentation.

Physico-chemical characteristics

	Standard
Solubility in water at 5 %	Complete
pH (5 % solution)	6.0 - 7.0
Loss on drying	≤ 6.0 %
Total nitrogen TN	11.5 - 14.0 %
α-amino nitrogen AN	2.0 - 3.0 %
AN/TN x 100	15 - 27
Residue on ignition	≤ 11.0 %
Chloride (as NaCl)	≤ 1.0 %

Microbiology

	Standard
Total aerobic microbial count	≤ 10 000 /g
Coliforms	≤ 10 /g
<i>Escherichia coli</i>	Absence / 1 g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence / 10 g
Yeasts and moulds	≤ 20 /g



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Il est de la responsabilité des utilisateurs de conduire leurs propres tests pour déterminer les conditions d'utilisations selon leurs usages spécifiques.

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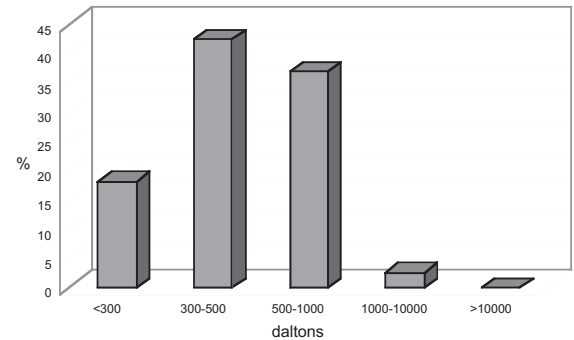


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Typical data

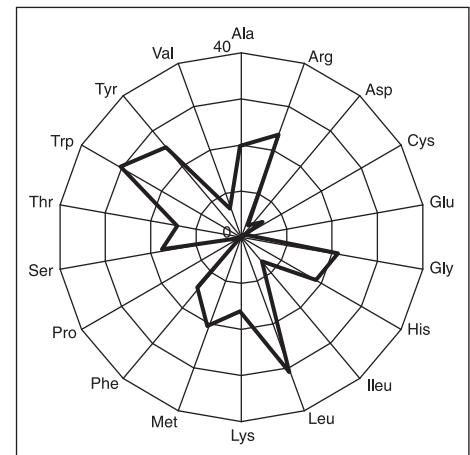
Molecular weight distribution	g / 100 g
> 10 000 daltons	0,0
1 000 - 10 000 daltons	2,5
500 - 1 000 daltons	37,0
300 - 500 daltons	42,4
< 300 daltons	18,1

Average Molecular Weight **474 daltons**



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	2.1	0.4	19.8
Arginine	Arg	3.1	0.7	23.1
Aspartic acid	Asp	2.9	0.1	2.8
Cystine	Cys	2.0	0.1	5.9
Glutamic acid	Glu	29.0	0.3	1.2
Glycine	Gly	3.1	0.7	21.9
Histidine	His	2.1	0.4	19.0
Isoleucine	Ileu	2.2	0.2	7.3
Leucine	Leu	4.7	1.5	31.5
Lysine	Lys	1.7	0.3	16.5
Methionine	Met	1.4	0.3	20.6
Phenylalanine	Phe	3.4	0.5	14.5
Proline	Pro	9.2	0.0	0.0
Serine	Ser	4.3	0.7	17.2
Threonine	Thr	2.2	0.3	13.5
Tryptophane	Trp	0.4	0.1	30.0
Tyrosine	Tyr	1.8	0.5	25.0
Valine	Val	2.9	0.2	6.3



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: 5 years.

Health and safety information

Dusty powder.

Avoid inhalation.

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