

Edition 04/2008
Replace Ed. 04/2005

Gelatine Peptone N3 19554

Definition

Gelatine Peptone N3 is manufactured by a controlled enzymatic hydrolysis of gelatine.

Description

Fine cream powder easily soluble in water.

Gelatine Peptone N3 contains a mix of peptides, free amino acids and growth factors.

Use

Source of organic nitrogen and growth factors recommended in media for:

- Analytical microbiology
- Industrial fermentation.

Physico-chemical characteristics

	Standard
Solubility in water at 5 %	Complete
pH (5 % solution)	6.5 - 7.5
Loss on drying	≤ 6.0 %
Total nitrogen TN	15.5 - 16.5 %
α-amino nitrogen AN	2.4 - 3.4 %
AN/TN x 100	14 - 22
Residue on ignition	≤ 9.0 %
Chloride (as NaCl)	≤ 5.0 %

Microbiology

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



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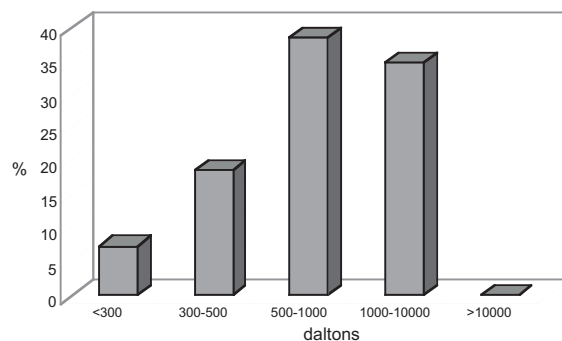
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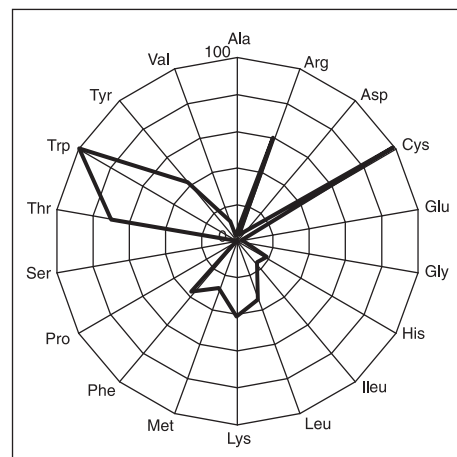
Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	34,9
500 - 1 000 daltons	38,8
300 - 500 daltons	18,8
< 300 daltons	7,5
Average Molecular Weight	1 095 daltons



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	7.1	0.1	1.4
Arginine	Arg	6.7	3.9	58.2
Aspartic acid	Asp	4.7	0.2	4.3
Cystine	Cys	0.2	0.2	100.0
Glutamic acid	Glu	8.2	0.3	3.7
Glycine	Gly	19.3	0.2	1.0
Histidine	His	0.5	0.1	20.0
Isoleucine	Ileu	1.1	0.2	18.2
Leucine	Leu	2.0	0.7	35.0
Lysine	Lys	3.3	1.4	42.4
Methionine	Met	0.7	0.2	28.6
Phenylalanine	Phe	2.1	0.8	38.1
Proline	Pro	10.6	0.1	0.9
Serine	Ser	3.1	0.1	3.2
Threonine	Thr	1.6	1.1	68.8
Tryptophan	Trp	0.1	0.1	100.0
Tyrosine	Tyr	1.2	0.5	41.7
Valine	Val	2.0	0.2	10.0



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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