

Edition 04/2008
Replace Ed. 04/2005

Casein Peptone N1 19516

Definition

Casein Peptone N1 is manufactured by a controlled enzymatic hydrolysis of casein.

Description

Fine white powder easily soluble in water.

Casein Peptone N1 contains a mix of peptides and free amino acids.

Use

Source of organic nitrogen 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	12.5 - 13.5 %
α-amino nitrogen AN	3.0 - 4.0 %
AN/TN x 100	22 - 32
Residue on ignition	≤ 17.0 %
Chloride (as NaCl)	≤ 6.0 %

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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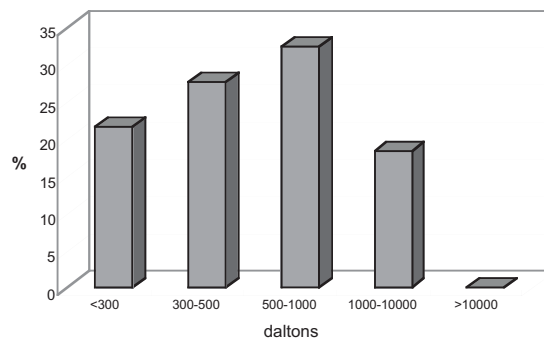
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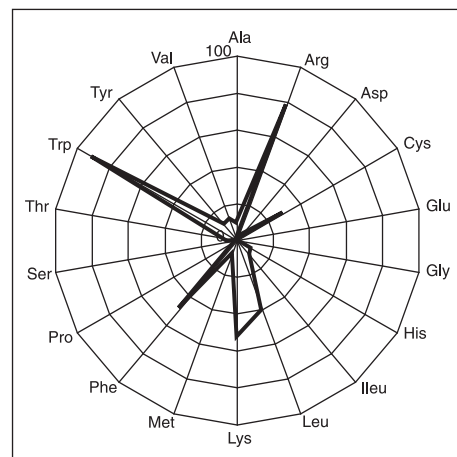
Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	18.4
500 - 1 000 daltons	32.4
300 - 500 daltons	27.6
< 300 daltons	21.6
Average Molecular Weight	681 daltons



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	2.4	0.2	8.3
Arginine	Arg	3.0	2.3	76.7
Aspartic acid	Asp	5.5	0.0	0.0
Cystine	Cys	0.7	0.2	28.6
Glutamic acid	Glu	16.6	0.1	0.6
Glycine	Gly	1.6	0.0	0.0
Histidine	His	2.2	0.2	9.1
Isoleucine	Ileu	4.4	0.5	11.4
Leucine	Leu	6.5	2.7	41.5
Lysine	Lys	6.4	3.4	53.1
Methionine	Met	2.5	0.2	8.0
Phenylalanine	Phe	3.8	1.8	47.4
Proline	Pro	8.5	0.0	0.0
Serine	Ser	4.5	0.2	4.4
Threonine	Thr	3.6	0.4	11.1
Tryptophan	Trp	1.0	0.9	90.0
Tyrosine	Tyr	1.9	0.2	10.5
Valine	Val	5.4	0.6	11.1



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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