

Edition 04/2008
 Replace Ed. 04/2005
 Provisional Technical Specification

Casein Peptone K3 19567

Definition

Casein Peptone K3 is manufactured by a controlled enzymatic hydrolysis of casein. It can be obtained with a Kosher certification.

Description

Fine cream powder.

Casein Peptone K3 contains a mix of peptides and free amino acids.

Use

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

Physico-chemical characteristics

	Standard
Solubility in water at 2 %	Incomplete
pH (2 % solution)	7,6 – 8,4
Loss on drying	≤ 6.0 %
Total nitrogen TN	≥ 12,4 %
α-amino nitrogen AN	2.0 - 2.4 %
AN/TN x 100	13 – 20
Residue on ignition	≤ 15,0 %

Microbiology

	Standard
Total aerobic microbial count	≤ 5 000 /g
Coliforms	≤ 50 /g
<i>Salmonella</i>	Absence / 25 g
Yeasts and moulds	≤ 50 /g



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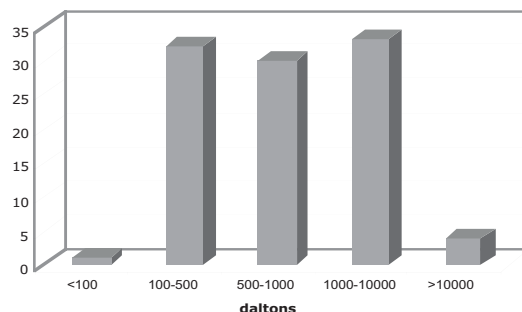


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Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	4
1 000 - 10 000 daltons	33
500 - 1 000 daltons	30
100 - 500 daltons	32
< 100 daltons	1

Amino acids		Total - T (g/100 g proteins)
Alanine	Ala	2,9
Arginine	Arg	3,9
Aspartic acid	Asp	7,0
Cystine	Cys	0,3
Glutamic acid	Glu	24,5
Glycine	Gly	1,8
Histine	His	2,9
Isoleucine	Ileu	5,3
Leucine	Leu	9,5
Lysine	Lys	7,7
Methionine	Met	3,0
Phenylalanine	Phe	4,9
Proline	Pro	12,3
Serine	Ser	5,4
Threonine	Thr	4,1
Tryptophan	Trp	1,3
Tyrosine	Tyr	5,5
Valine	Val	6,7



Molecular weight distribution

Documentation

Kosher certificate, certificate of analysis supplied with each delivery.

Storage

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

Best before: 2 years.

Health and safety information

Dusty powder.
Avoid inhalation.

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