Edition 04/2008
Replace Ed. 04/2005

Hydrolysate of Casein C1 19581

Organotechnie® S.A.S.
27, avenue Jean Mermoz
93120 La Courneuve, France
Tél : +33 (0) 1 49 92 87 50
Fax : +33 (0) 1 49 92 87 51

e-mail : info@organotechnie.com
web : http://www.organotechnie.com

Definition
Hydrolysate of Casein C1 is manufactured by an acid hydrolysis of casein.

Description
Fine beige powder easily soluble in water.
Hydrolysate of Casein C1 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)	4.5 - 6.0
Loss on drying	≤ 6.0 %
Total nitrogen TN	7.0 - 8.0 %
α-amino nitrogen AN	4.5 - 6.5 %
AN/TN x 100	56 - 93
Chloride (as NaCl)	≤ 45.0 %

Microbiology

	Standard
Total aerobic microbial count	≤ 10 000 /g

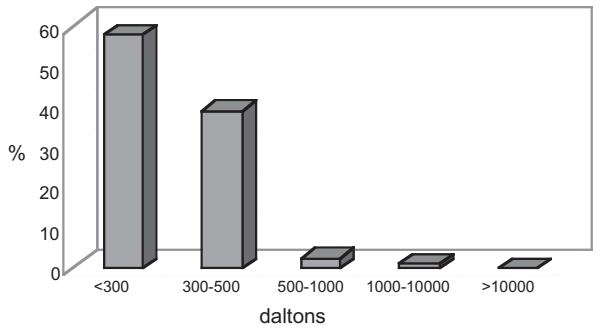
Hydrolysate of Casein C1 / 19581

Edition 04/2008
Replace Ed. 04/2005

Organotechnie S.A.S.

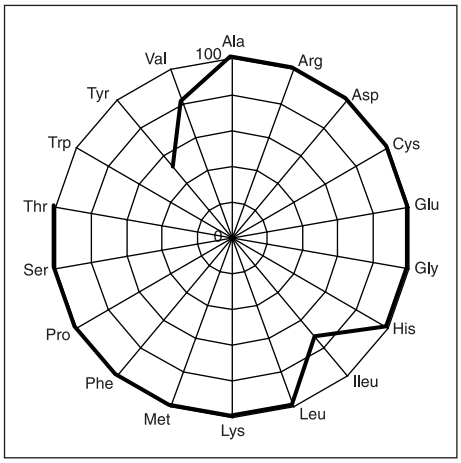
Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	1.0
500 - 1 000 daltons	2.5
300 - 500 daltons	38.8
< 300 daltons	57.7
Average Molecular Weight	**379 daltons**



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	1.9	1.9	100.0
Arginine	Arg	1.7	1.7	100.0
Aspartic acid	Asp	3.8	3.8	100.0
Cystine	Cys	0.2	0.2	100.0
Glutamic acid	Glu	10.9	10.9	100.0
Glycine	Gly	1.0	1.0	100.0
Histidine	His	1.2	1.2	100.0
Isoleucine	Ileu	2.2	1.6	72.7
Leucine	Leu	3.4	3.4	100.0
Lysine	Lys	3.8	3.8	100.0
Methionine	Met	1.2	1.2	100.0
Phenylalanine	Phe	1.8	1.8	100.0
roline	Pro	5.6	5.6	100.0
Serine	Ser	2.8	2.8	100.0
Threonine	Thr	2.1	2.1	100.0
Tryptophan	Trp	0.0	0.0	
Tyrosine	Tyr	0.4	0.2	50.0
Valine	Val	3.0	2.4	80.0



Amino Acids F/T x 100

Documentation

The certificate of analysis is 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.