

Technical Data Sheet

M-Gredient® Casein Acid Hydrolysate

Prime, for Biotechnology and Microbiology

Catalogue number: 102245

Description

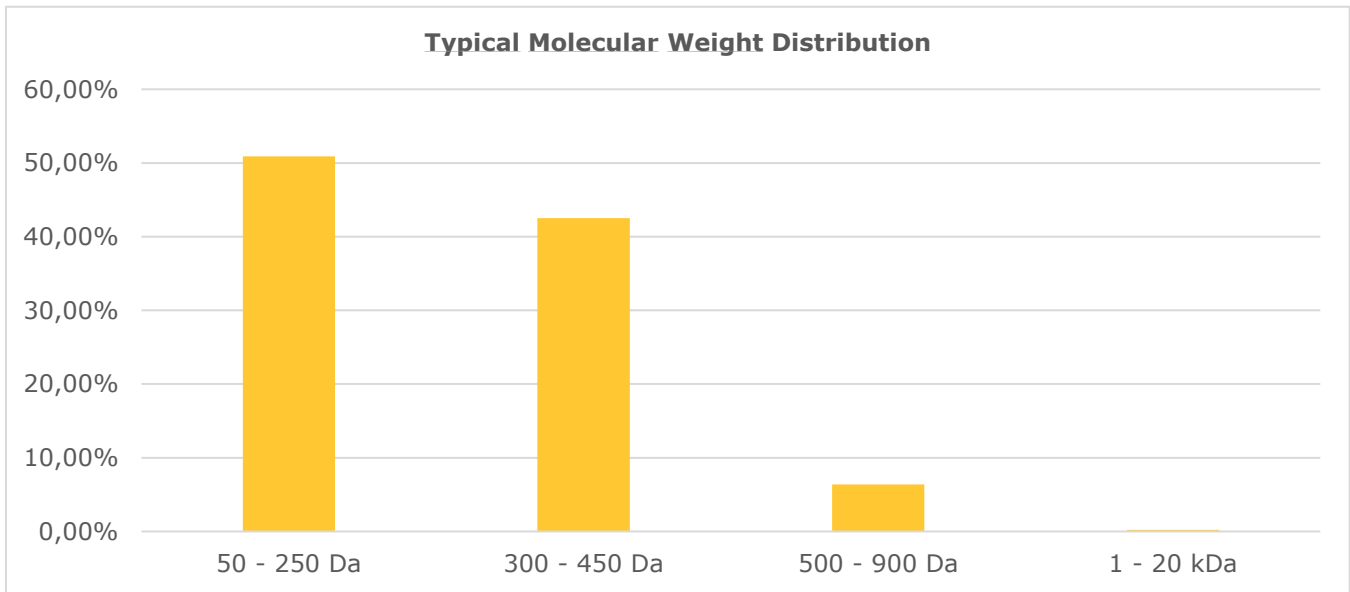
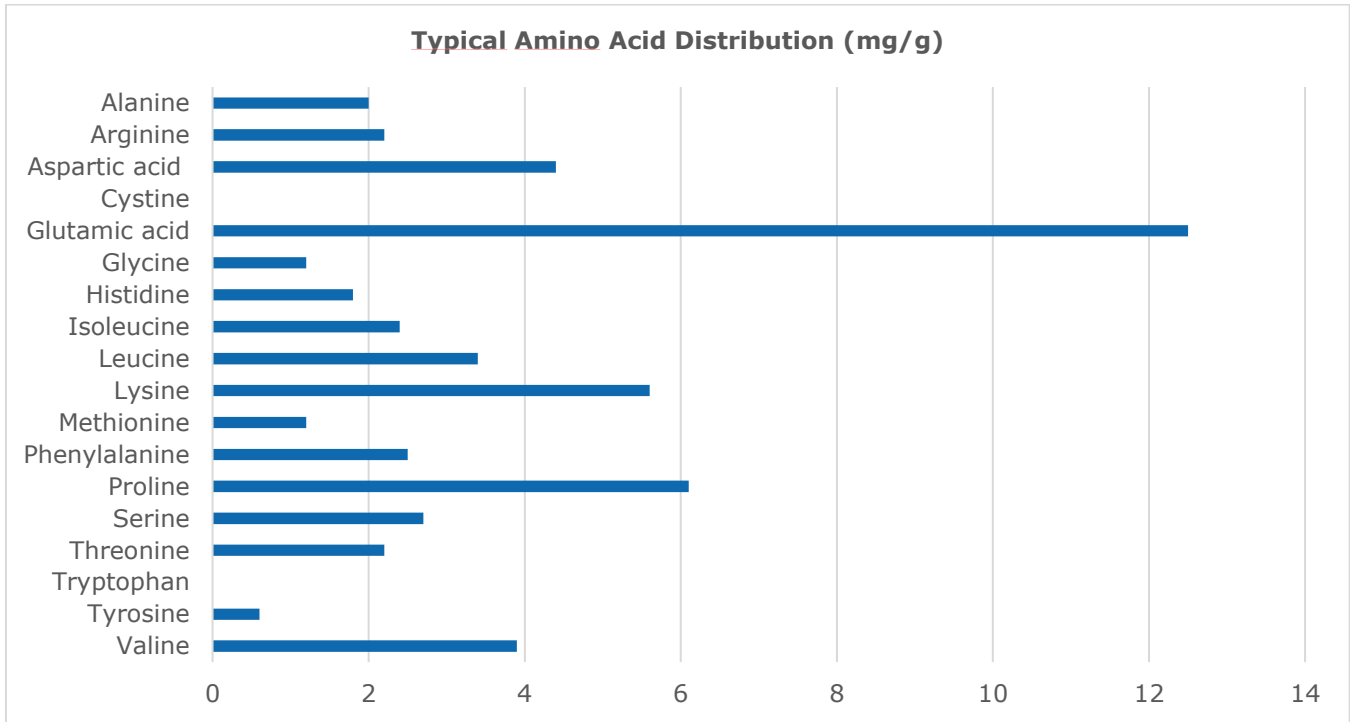
The M-Gredient® Casein Acid Hydrolysate Prime, for Biotechnology and Microbiology is produced by the hydrolyzation of food grade casein with hydrochloric acid. Under these digestion conditions a high content of free amino acid is obtained and a proportion of growth promoting substances are retained. The inorganic salt level is high due to neutralization of the digestive acid. Additionally, this product has a particularly low iron content.

Application

It is often used alongside other nitrogen sources, such as peptones or yeast extracts, to enhance microbial growth. M-Gredient® Casein Acid Hydrolysate can be utilized for industrial fermentations with various microorganisms, favoring a high yield of biomass, particularly for certain yeasts and fastidious bacteria. Furthermore, casein hydrolysate can serve as a component in the preparation of culture media.

Product Characteristics

Specified in CoA	Appearance	Lightly yellow to lightly brownishyellow, fine powder
	pH-value (5% water)	4.7 – 7.0
	Total nitrogen (N) (Kjeldahl)	7.0 – 8.5%
	Amino nitrogen (as N)	5.0 – 6.5%
	Sulfated ash (800 °C)	≤ 58%
	Loss on drying (105 °C)	≤ 6.0%
	Suitability for microbiology	passes test
Typical values, not part of CoA specifications	Chloride	40.3%
	Iron	0.002%



Ordering Information

Product	Cat. No.	Pack content
M-Gredient® Casein Acid Hydrolysate Prime, for Biotechnology and Microbiology	1022450500	500 g
	1022455000	5 kg

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