

Milei® 90 M



Product Description

Milei® 90 M is a highly native, soluble whey protein isolate manufactured from fresh skim milk by filtration processes and spray drying. The product is a white to off-white powder with a typical to neutral taste and odor.

Physical Characteristics	Specification	Typical	Unit	Method
Scorched particles	Disc A/B			ADPI 916:2002
Bulk density	300 - 400		g/l	VDLUFA C 26.4

Chemical Characteristics

pH value (10 %)	6.4 – 7.0			VDLUFA C 8.2
Protein i. DM.	min. 90.0		%	ISO 8968-1
Lactose	max. 5.0	3.5	%	ISO 5765-2
Ash	max. 3.5	2.5	%	DIN 10477
Fat	max. 1.0	0.1	%	ISO 8262-1
Moisture	max. 6.0		%	DIN 10321 mod.
Nitrite	max. 1		ppm	ISO 14673-2

Microbiological Characteristics

Total plate count	max. 30 000		cfu / g	ISO 4833 mod.
Enterobacteriaceae	max. 10		cfu / g (n=5)	ISO 21528-2 mod.
<i>Escherichia coli</i>	neg.		/ g	ISO 16649-2 mod.
Yeasts	max. 50		cfu / g	ISO 6611 mod.
Moulds	max. 50		cfu / g	ISO 6611 mod.
<i>Staphylococcus aureus</i>	neg.		/ g (n=5)	PCR (ISO 6888-3)
Salmonella	neg.		/ 75 g (n=5)	PCR (ISO 6579-1)

Additional Information

Purpose of use	Intended for further processing in the food industry
Standard packaging	Multilayer paper bag with inner PE bag (20 kg each), Big Bag PP (450 kg each)
Storage conditions	Store in sealed bags or big bags under clean, cool & dry conditions (max. 25 °C, RH max. 65 %) not exposed to direct sunlight or strong odors. Pallets shall not be stacked on top of each other.
Shelf life	24 months
Suggested nomenclature	Milcheiweiß / Milk protein
<small>(acc. to MilchErzV / (EC) No. 1169/2011) Country regulations for product labelling may vary. We advise customers to check local regulations for correct ingredient labelling.</small>	



CERTIFICATE



This is to certify that

MILEI Gesellschaft mit beschränkter Haftung

Kemptener Straße 91
88299 Leutkirch im Allgäu
Germany

has implemented and maintains an **Energy Management System**.

Scope:

Development, manufacture and distribution of products from whey and milk

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 50001 : 2018

Certificate registration no. 530148 EMSt18
Valid from 2022-07-15
Valid until 2025-07-14
Date of certification 2022-06-13



DQS GmbH

Markus Bleher
Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS CFS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany



Typical Nutritional Analysis

Product: Milei® 90 M

Values per 100 g Product

Energy	1568 kJ / 369 kcal
Fat	0.1 g
of which	
- Saturates	0.06 g
Carbohydrate	4.0 g
of which	
- Sugars	4.0 g
Protein	88 g
Salt (Sodium x 2.5)	0.3 g

The indicated values are average values; deviations for seasonal reasons are possible. Subject to change without notice.



Composition Minerals

Product: Milei® 90 M

Typical values in mg/100 g Product

Parameter	Result
Calcium	521
Magnesium	66
Potassium	497
Sodium	160
Chloride	53
Phosphor	328

The indicated values are average values based on monitoring; deviations for seasonal reasons are possible.
Subject to change without notice.

Composition Amino Acids

Product: Milei® 90 M

Values in g per 100 g Product

Essential Amino Acids

Amino Acid	Abbreviation	Average value	Standard deviation
Threonine	thr	4.42	0.13
Valine	val	5.27	0.21
Methionine	met	2.32	0.08
Isoleucine	ile	5.22	0.12
Leucine	leu	11.19	0.43
Phenylalanine	phe	3.68	0.12
Lysine	lys	9.02	0.22
Tryptophan	trp	1.84	0.11

Semi-Essential and other Amino Acids

Amino Acid	Abbreviation	Average value	Standard deviation
Aspartic Acid	asp	9.81	0.26
Serine	ser	4.05	0.11
Glutamic Acid	glu	17.39	0.39
Proline	pro	5.98	0.28
Glycine	gly	1.60	0.03
Alanine	ala	3.96	0.10
Cysteine	cys	2.25	0.09
Tyrosine	tyr	3.30	0.13
Histidine	his	2.07	0.04
Arginine	arg	2.40	0.05

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