AB 079

TEST REPORT NO 662425/23/GDY

Client	Sample (according to declaration of Client)
MARCIN SZCZEPANIK MUSCLE POWER KRAKOWSKA 45/86/87A 42202 CZĘSTOCHOWA	Sample description: Instant Whey Protein - 750g - Vanilla Batch: 31122L1 Expiry date: 31.07.2025

Sample reception date:	**28.12.2023**	Sample status: no objections
Start of analysis	**03.01.2024**	
End of analysis	**23.01.2024**	Sample received from the Client
Test report date	**23.01.2024**	

Test Method	**Unit**	**Result**
* Protein (N*6.25) PB-116 ed. III of 11.08.2020	%	69,6
* Moisture PB-285 ed. I of 26.09.2014 p. 1	%	5,5
* Protein (N*6.25) on dry matter Calculated	%	73,6
* Proteinogenic amino acids [2)] PB-53/HPLC ed. II of 30.12.2008		
Aspartic acid	%	7,23
Glutamic acid[3)]	%	12,7
Serine	%	3,61
Histidine	%	1,27
Glycine	%	1,31
Arginine	%	1,82
Threonine	%	4,67
Alanine	%	3,69
Proline	%	4,29
Tyrosine	%	2,03
Valine	%	4,05
Methionine	%	1,68
Cysteine	%	1,71
Isoleucine	%	4,31
Leucine	%	7,73
Phenylalanine	%	2,28
Lysine	%	6,80
* Free proteinogenic amino acids [1) 4)] PB-53/HPLC ed. II of 30.12.2008		

J.S. HAMILTON POLAND Sp. z o.o.
TESTING LABORATORY
Chwaszczyńska 180, 81-571 Gdynia, Poland tel. +48 58 766 99 00

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Aspartic acid	%	< 0,005 (0,005 ± 0,001)
Glutamic acid	%	< 0,005 (0,005 ± 0,001)
Serine	%	< 0,005 (0,005 ± 0,001)
Histidine	%	< 0,005 (0,005 ± 0,001)
Glycine	%	< 0,005 (0,005 ± 0,001)
Arginine	%	< 0,005 (0,005 ± 0,001)
Threonine	%	< 0,005 (0,005 ± 0,001)
Alanine	%	< 0,005 (0,005 ± 0,001)
Proline	%	< 0,005 (0,005 ± 0,001)
Tyrosine	%	< 0,005 (0,005 ± 0,001)
Valine	%	< 0,005 (0,005 ± 0,001)
Methionine	%	< 0,005 (0,005 ± 0,001)
Cysteine	%	< 0,005 (0,005 ± 0,001)
Isoleucine	%	< 0,005 (0,005 ± 0,001)
Leucine	%	< 0,005 (0,005 ± 0,001)
Phenylalanine	%	< 0,005 (0,005 ± 0,001)
Lysine	%	< 0,005 (0,005 ± 0,001)
* Tryptophan PB-136/HPLC ed. I of 06.02.2012	g/100 g	1,24
* Free tryptophan [4)] PB-136/HPLC ed. I of 06.02.2012	g/100 g	< 0,001 (0,001 ± 0,001)

1) The composition of amino acids - the accreditation range from 0,005% to 10%.
Aspartic acid – the result is the sum of aspartic acid and its salts.
Glutamic acid – the result is the sum of glutamic acid and its salts.
Cysteine – the result is the sum of cystine and cysteine.

2) The composition of amino acids - the accreditation range from 0,005% to 10%.
Aspartic acid – the result is the sum of asparagine, aspartic acid and its salts.
Glutamic acid – the result is the sum of glutamine, glutamic acid and its salts.
Cysteine – the result is the sum of cystine and cysteine.

3) Parameter not included in the scope of accreditation.

4) The lower limit of the measuring range of the accredited method, which is also the limit of quantification set by the Laboratory.

Authorized by:
ID: 548, Analysis Expert, Classical Analysis Laboratory
ID: 758, Analysis Expert, Vitamin Analysis Laboratory

The test report bears the certified electronic seal of J.S. Hamilton Poland Sp. z o.o.

Laboratory address:
Chwaszczyńska 180, 81-571 Gdynia

The results refer only to the samples received. When a measurement uncertainty is given, it is an expanded uncertainty estimated for a coverage factor k=2 at 95% confidence level and is not including sampling uncertainty, unless otherwise stated. When the conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019, unless otherwise reported. If the "result" column of the accredited method contains a record: "<" or ">", it means, that it is the test outcome directly related to the lower or upper limit of the measuring range of the accredited method, whereas the given expanded measurement uncertainty relates only to the lower or upper limit of the measuring range of the accredited method respectively. In such a case, the Laboratory presents the opinion and interpretation in the "statement of conformity" column, which is based on the obtained test outcome. This test report may not be copied in part without the prior written permission of J.S. Hamilton Poland Sp. z o.o. The responsibility of J.S. Hamilton Poland Sp. z o.o. is limited solely to the data issued in its original. J.S. Hamilton Poland Sp. z o.o. does not permit the use of the PCA accreditation symbol AB 079 by customers, subcontractors, external service providers and other third parties. For further information please refer to the PCA document - DA-02. The service confirmed by this report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on www.hamilton.com.pl.

* Test method accredited
# Test performed by external provider

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THE END OF THE REPORT

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