HAMILTON

AB 079

REPORT OF ANALYSIS No. 572111/21/SGDY/Z1

Replaces Report of Analysis No. 572111/21/SGDY of 2021-10-28

Client **HERO PRO LTD** OFFICE 312B, 182-184 HIGH STREET NORTH E6 2JA LONDON	Sample description *(according to declaration of Client)* **Instant Whey Protein** **Lot: 02/2023/LOT1** _____ **Sample without any visible damages**
Sample received: **2021-10-13**	
Analysis completed (the date of performance of the laboratory activity): **2021-10-28**	**Order of 2021-10-12**
Report dated: **2021-11-03**	The samples were delivered by Client

Test	Method	Unit	Result	Criteria	Parameter compliant / non-compliant
* Protein (N*6,38) [1)]	PB-116 ed. III of 11.08.2020				
Protein (N*6,38)		%	69,2 ± 2,1	-	-
Protein (N*6,38) in dry mass		%	73,5 ± 2,2	-	-
* Moisture	PN-ISO 5550:2010	%	5,85 ± 0,41	-	-
* Proteinogenic amino acid [2)]	PB-53/HPLC ed. II of 30.12.2008				
Aspartic acid		%	6,89 ± 1,10	-	-
Glutamic acid		%	12,4 ± 2,0	-	-
Serine		%	3,49 ± 0,56	-	-
Glycine		%	1,27 ± 0,20	-	-
Histidine		%	1,31 ± 0,21	-	-
Arginine		%	1,81 ± 0,29	-	-
Threonine		%	4,36 ± 0,70	-	-
Alanine		%	3,39 ± 0,54	-	-
Proline		%	4,05 ± 0,65	-	-
Tyrosine		%	2,18 ± 0,35	-	-
Valine		%	3,90 ± 0,62	-	-
Methionine		%	1,53 ± 0,25	-	-
Cysteine		%	1,98 ± 0,21	-	-
Isoleucine		%	4,24 ± 0,68	-	-
Leucine		%	7,40 ± 1,18	-	-
Phenylalanine		%	2,30 ± 0,37	-	-
Lysine		%	6,33 ± 1,01	-	-
Protein	calculated	%	68,1 ± 10,9	-	-
* Tryptophan	PB-136/HPLC ed. I of 06.02.2012	g/100 g	1,05 ± 0,15	-	-
* Free proteinogenic amino acids	PB-53/HPLC ed. II of 30.12.2008				
Aspartic acid		%	< 0,005	-	-
Glutamic acid		%	< 0,005	-	-
Serine		%	< 0,005	-	-
Histidine		%	< 0,005	-	-
Glycine		%	< 0,005	-	-
Arginine		%	< 0,005	-	-
Threonine		%	< 0,005	-	-
Alanine		%	< 0,005	-	-
Proline		%	< 0,005	-	-

Authorized by: Alicja Nowak, Senior Specialist Analyst, Classical Analysis Laboratory
Dorota Ryszewska, Expert Analyst, Vitamin Analysis Laboratory
Joanna Śpiewak, Expert Analyst, Classical Analysis Laboratory
Approved by: Hanna Wachowska, Laboratory Director *(Approved with electronic signature)*

Laboratory: Gdynia 81-571, Chwaszczyńska 180

The results relate to the analysed samples only. Unless otherwise specified given expanded measurement uncertainty was estimated for the coverage factor k=2 at 95% confidence level. Sampling uncertainty has not been taken into consideration. Unless otherwise specified when conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. 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

Form PO-10/02a of 20.01.2020

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Tyrosine		%	< 0,005	-	-
Valine		%	< 0,005	-	-
Methionine		%	< 0,005	-	-
Cysteine		%	< 0,005	-	-
Isoleucine		%	< 0,005	-	-
Leucine		%	< 0,005	-	-
Phenylalanine		%	< 0,005	-	-
Lysine		%	< 0,005	-	-
* Free tryptophan	PB-136/HPLC ed. I of 06.02.2012	g/100 g	< 0,001	-	-

[1)] Identification of the change: addition of the test

[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)] Identification of change: Client details

THE END OF THE REPORT

Authorized by: Alicja Nowak, Senior Specialist Analyst, Classical Analysis Laboratory
Dorota Ryszewska, Expert Analyst, Vitamin Analysis Laboratory
Joanna Śpiewak, Expert Analyst, Classical Analysis Laboratory
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