

TEST REPORT N. 26/000145145

date of issue 06/03/2026

Customer ID 0086438/001

Messrs
PUYA TUKETIM GIDA VE
ICECEK SAN. VE TIC. AS.
ICERENKOY MAH DEGIRMEN
YOLU CAD. KUTAY IS M. B NO:
18 IC KAPI NO: 9
. ISTANBUL
Turkiye

Sample information

Acceptance number 26.507555.0001
Delivered by DHL International on 24/02/2026
Receiving Date 24/02/2026
Place of origin PUYA TUKETIM GIDA VE ICECEK SAN. VE TIC. AS. ICERENKOY MAH DEGIRMEN YOLU CAD. KUTAY IS M. B NO: 18 IC KAPI NO: 9 . ISTANBUL Turkiye
Matrix POWDER PREPARATION FOR COCOA BEVERAGES
Sample Description CIKOLATA AROMALI BITKISEL PROTEIN ICEREN TOZ KARISIM BEZELYE PROTEINI - MAYA PROTEINI / WUP PLANT PROTEIN CIKOLATA
Protocol number (9002026016642)

Sampling information

Sampled by Customer

follow test report n. 26/000145145

ANALYTICAL RESULTS

	Value/ Uncertainty	U.M.	LoQ	LoD	R	Start/end date of analysis	Op. units	Row
ON SAMPLE AS IT IS								1
AMINOACIDIC COMPOSITION (AFTER HYDROLYSIS)								2
Met.A: MP 2455 rev 2 2024						28/02/2026-06/03/2026	01	
Met.B: MP 2326 rev 4 2026 (AOAC 2017.03)						28/02/2026-04/03/2026	01	
Aspartic acid	7,48±0,76	g/100 g	0,010			Met.A		3
Glutamic acid	10,2±1,0	g/100 g	0,010			Met.A		4
Alanine	3,09±0,35	g/100 g	0,010			Met.A		5
Arginine	4,99±0,52	g/100 g	0,010			Met.A		6
cystine + cysteine	0,547±0,092	g/100 g	0,0071			Met.A		7
Phenylalanine	3,51±0,39	g/100 g	0,010			Met.A		8
Glycine	2,75±0,32	g/100 g	0,010			Met.A		9
Hydroxyproline	< LoQ	g/100 g	0,010			Met.A		10
Isoleucine	3,04±0,35	g/100 g	0,010			Met.A		11
Hystidine	1,60±0,24	g/100 g	0,010			Met.A		12
Leucine	5,41±0,56	g/100 g	0,010			Met.A		13
Lysine	4,95±0,52	g/100 g	0,010			Met.A		14
Methionine	0,76±0,13	g/100 g	0,0082			Met.A		15
Proline	2,83±0,33	g/100 g	0,010			Met.A		16
Serine	3,53±0,39	g/100 g	0,010			Met.A		17
Tyrosin	2,42±0,30	g/100 g	0,010			Met.A		18
Threonine	2,59±0,31	g/100 g	0,010			Met.A		19
Total tryptophan	4 700±850	mg/kg	45		99.8#	Met.B		20
Valine	3,39±0,38	g/100 g	0,010			Met.A		21
Total amino acids	63,557±1,901	g/100 g				Met.A		22

Operative units

Unit 01 : Via Fratta Resana (TV)

Information on test methods and/or requirements/specifications

Row (2) - Method: MP 2455 rev 2 2024 = Method is based on following methods:
 REG UE 771/2024 29/02/2024 GU L 15/03/2024 All. III Met. E P.to 5.3 "Determinazione degli amminoacidi totali".
 AOAC 2012.07 "Calculation of whey protein in milk-based infant formula".
 ISO 13903:2005 "Mangimi per animali – Determinazione del contenuto di amminoacidi".
 AOAC 2012.08 "Whey Protein Content in Milk-Based Infant Formula Finished Products".

information provided by the client

Sampled by: Customer
 Place of origin: PUYA TUKETIM GIDA VE ICECEK SAN. VE TIC. AS. ICERENKOY MAH DEGIRMEN YOLU CAD. KUTAY IS M. B NO: 18 IC KAPI NO: 9 . ISTANBUL
 Turkiye
 Description: CIKOLATA AROMALI BITKISEL PROTEIN ICEREN TOZ KARISIM BEZELYE PROTEINI - MAYA PROTEINI / WUP PLANT PROTEIN CIKOLATA
 Protocol number (9002026016642)

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Chemical responsible
Dott.ssa Federica Lomi
Chimico Ordine dei Chimici e dei Fisici - Provincia di Treviso Iscrizione n. A411
Num. certificato WSREF-97658832878983 emesso dall'ente certificatore ArubaPEC S.p.A. NG CA 3, ArubaPEC S.p.A., IT

- If not otherwise specified, the uncertainty is extended and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty.

- LoD is the detection limit and identifies a confidence interval of zero with a probability interval of about 99%. - LoQ is the limit of quantification. "n.d" is not detected and indicates a value inferior to the LoD. "traces (X)" means a value between LoD and LoQ, this value is indicative. "<x" or ">x" indicate inferior or superior to the measurement field of the test. - Unless otherwise specified, sums of parameters are established based on the Lower Bound (L.B.) principle in which only parameters above LOQ are considered. In case all components of a sum are below their respective LOQ, the sum is reported as "<x", where x is the highest LOQ among the analytes involved in the calculation. - Analysis Starting date: date at which the sample is processed by the laboratory. Can include aliquoting and homogenization steps. - Analysis End date: date at which the results are approved in LIMS by the laboratory. - In case of alteration of the sample the laboratory declines any responsibility on the results that can be influenced by the deviation in case the customer asks for the execution of the test anyway. - If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer.

- R is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations.

- If there is a specification (customer specifications, law limits) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. - If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analysed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure.