GBAPOLSKA

ANALYTICAL LABORATORIES

microbiology - physicochemistry - sensory



GBA POLSKA Sp. z o.o. Member of GBA GROUP

Headquarter address: ul. Mochtyńska 65, 03-289 Warsaw, Poland

TEST REPORT No.: Ł/0/01/2024/5986/FM/1/EN

Customer: Order No.:

Ł/0/01/2024/5986

A - accredited methodology (AB 1095); reference - if the law so provides (the result can be used to assess compliance in the legally regulated area).

AE - accredited methodology (AB 1095) of flexible scope - reference if the law so provides / equivalent to reference (the result can be used to assess compliance in the legally regulated area).

AR - accredited methodology (AB 1095) equivalent to reference (the result can be used to assess compliance in the legally regulated area).

NA - non-accredited method

MON - methodology accredited in terms of "OiB"

GMP+ - methodology registered in the scope of GMP+ B11 protocol (feed testing)

A/P - accredited methodology of the subcontractor

P - non-accredited methodology of the subcontractor

Materi	al/product tested: Dietary su	ıppleme	nts					
Sample	collection address:							
Produc	t name: Betaine C	itrate				Date*: 30.01	.2024	
Produce Date of Lot nun	production:	:	LABS212 S no data 14133 DW.	•				
	collected according to: transported by: Shipping				Sample receiver:	GBA POLSKA ei	mployee no.:	: 238
Sample	evaluation	1:	unreservedly	5	-	s end date:	06-02-2024	
Lab.	Analyzed parameter	Unit	Accred.	Test method	Requirement	Result	MU**	N
Ł	Presence of Salmonella spp.	25g	AE	PN-EN ISO 6579-1:2017-04, PN- EN ISO 6579-1:2017-04/A1:2020- 09	Absent in 25g; Customer requirements	not detected in 25g		
Ł	Presence of coagulase-positive staphylococci (Staphylococcus aureus and other species)	1g	AE	PN-EN ISO 6888-3:2004, PN-EN ISO 6888-3:2004/AC:2005	absent in 1g; Principal's requirements	absent in 1g		
Ł	Presence of presumptive Escherichia coli	lg	AE	PN-ISO 7251:2006	absent in 1g; Principal's requirements	absent in 1g		
Ł	Total microbial count	cfu/g	AE	PN-EN ISO 4833-1:2013-12, PN- EN ISO 4833-1:2013-12/Ap1:2016- 11, PN-EN ISO 4833-1:2013- 12/A1:2022-06	≤1.0x10 ⁴ ; CFU/g; Customer requirements	<1,0x10 ¹		
Ł	Count of yeasts and moulds	cfu/g	AE	PN-ISO 7954:1999	≤1.0x10 ² ; CFU / g; Customer requirements	<1,0x10 ¹		
Ł	Cadmium	mg/kg	AE	PN-EN 15763:2010	≤ 1.0 ; mg/kg ; Commission Regulation (EU) 2023/915 of 25 April 2023	< 0,002		
Ł	Lead	mg/kg	AE	PN-EN 15763:2010	≤ 3.0 ; mg/kg ; Commission Regulation (EU) 2023/915 of 25 April 2023	< 0,010		

Lab.	Analyzed parameter	Unit	Accred.	Test method	Requirement	Result	MU**	Ν
Ł	Mercury	mg/kg	AE	PN-EN 15763:2010	≤ 0.1 ; mg/kg ; COMMISSION REGULATION (EU) 2023/915 of 25 April 2023	0,002		
Ł	Arsenic	mg/kg	AE	PN-EN 15763:2010	no requirements	< 0,010		
Ł	Ethylene oxide	mg/kg	AE	PB-301/LF ed. 4 of 06.12.2022	no requirements	< 0,010		
Ł	2 - chloroethanol (as ethylene oxide)	mg/kg	AE	PB-301/LF ed. 4 of 06.12.2022	no requirements	0,077	+/-0,039	
Ł	Ethylene oxide (sum of ethylene oxide and 2-chloro-ethanol expressed as ethylene oxide)	mg/kg	AE	PB-301/LF ed. 4 of 06.12.2022	≤ 0.2; mg / kg; Principal's requirements	0,042	+/-0,021	
Ł	Gluten- ELISA Mendez R5	mg/kg	AE	PB-259/LF, ed. 3 of 03.01.2022	≤ 20 ; mg/kg ; COMMISSION IMPLEMENTING REGULATION (EU) No 828/2014 of 30 July 2014	<5,0		
Ł	Content of Echimidine and Heliosupine	μg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Erucifoline	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Europine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Heliotrine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Intermedine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Jacobine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Lasiocarpine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Lycopsamine and Indicine	µg/kg	А	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		

Lab.	Analyzed parameter	Unit	Accred.	Test method	Requirement	Result	MU**	Ν
Ł	Content of Monocrotaline	μg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Echimidine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Erucifoline-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Europine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Heliosupine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Heliotrine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Intermedine-N-oxide, Indicine-N-oxide, Echinatine-N-oxide and Rinderine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Jacobine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Lasiocarpine-N-oxide	μg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Lycopsamine-N-oxide	μg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Monocrotalin-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Retrorsine-N-oxide and Usaramine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Senecionine-N-oxide, Integerrimine-N-oxide and Senecivernine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Seneciphylline-N-oxide and Spartioidine-N-oxide	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		

Lab.	Analyzed parameter	Unit	Accred.	Test method	Requirement	Result	MU**	Ν
Ł	Content of Retrorsine and Usaramine	μg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Rinderine and Echinatine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Seneciphylline and Spartioidine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Senecivernine, Integerrimine and Senecionine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Senkirkine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Trichodesmine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Pyrrolizidine alkaloids content (total) (BfR 28)	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		+
Ł	Pyrrolizidine alkaloids content (total) (Commision Regulation (EU) 2023/915)	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	$ \leq 400 ; \mu g/kg ; COMMISSION REGULATION (EU) 2023/915 of 25 April 2023 $	< 1,0		
Ł	Content of Atropine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Content of Scopolamine	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		
Ł	Tropane alkaloids content (total)	µg/kg	A	PB-310/LF ed. 1 of 14.12.2022	no requirements	< 1,0		+

Date* - depending on the method of obtaining the sample by GBA Polska, it is the date of: collection (when the sample is collected only by a GBA Polska employee) or collection (when the sample is

Collected from customer by a GBA Polska enployee, is delivered by a courier company or delivered personality by the customer). MU** - expanded measurement uncertainty at the level of confidence app. 95% and the coverage factor k=2, does not take into account the sampling uncertainty, except when indicated in the remarks. Measurement uncertainty is presented when: it is relevant to the validity or application of the test results, it affects conformity to a specification limit, or a customer's instructions or requires. The test results lower or higher than the measuring ranges of the methods are presented as "<value of the lower limit of the measuring range", respectively. These values provide information about the research results. If expanded uncertainties are given with these test results, they apply to the lower or upper limit of the measuring range of the method. In such a case, if the test results meet the requirements of PCA Communication No. 353 of August 24, 2021, the determination of compliance will be made as part of the opinion and interpretation.

Interpretation. The results relate to the tested samples (sampled or received - as reported in the test report). The underlined information included in the report was provided by the Client. The Laboratory is not responsible for this information. The laboratory is not resposible for the method of sampling and the representativeness of the samples provided by the customer for testing. The test report without the written approval of the Laboratory shall not be reproduced except in full. Customer may file complains within 14 days from receiving the report. The Laboratory does not store the samples after testing, unless otherwise agreed with the customer. Place of performance of the tests ("Lab."): Ł - Łajski, L - Lublin, M - Mysłowice, PS - in situ measurement.

Ł/0/01/2024/5986/FM/1/EN

Remarks:

The second selective medium for detecting the presence of Salmonella spp. in accordance with PN-EN ISO 6579-1:2017-04, PN-EN ISO 6579-1:2017-04, PN-EN ISO 6579-1:2017-04/A1:2020-09 is RVS broth and Brilliance Salmonella/Agar.

Braid Parker RPF/agar was used to detect coagulase-positive staphylococci.

NOTE: The original test reports are issued as PDF file, signed with a qualified electronic signature. Therefore, all prints are copies, unless certified to be true to the original PDF file.

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