

TEST REPORT No.: Ł/0/04/2023/1038/FM/16/EN
Customer: SFD S.A 45-315 Opole, ul. Głogowska 41

Order No.: Ł/0/04/2023/1038

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).

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

Material/product tested: Dietary supplements								
Sample collection address:			45-315 Opole, ul. Głogowska 41					
Product name:			SFD FOR STRONG JOINTS 180 tab				Date*: 11.04.2023	
Producer:			own production					
Date of production:			03.2023					
Lot number:			1S230343					
Samples collected according to:						Sample receiver: GBA POLSKA employee no.: 2684		
Samples transported by: Shipping								
Sample no.:	11514/04/23	Sample evaluation:	unreservedly	Analysis start date:	11-04-2023	Analysis end date:	19-04-2023	
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	no requirements	not detected in 25g		
Ł	Presence of presumptive Escherichia coli	1g	AE	PN-ISO 7251:2006	no 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	no requirements	<1,0 x 10 ⁴		
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	no requirements	absent in 1g		
Ł	Presence of Listeria monocytogenes	25g	AE	PN-EN ISO 11290-1:2017-07	no requirements	not detected in 25g		
Ł	Count of yeasts and moulds	cfu/g	AE	PN-ISO 7954:1999	no requirements	<1,0 x 10 ⁴		
	Pyrrolizidine alkaloids	µg/kg	A/P	HM-MA-M 02-055, LC-MS/MS: 2022-01 (Nr Akkr. D-PL-14170-01-00)	no requirements	in Attachment		

Lab.	Analyzed parameter	Unit	Accred.	Test method	Requirement	Result	MU**	N
Ł	Content of vitamin C	mg/100g	AE	PB-257/LF ed. 5 dated 02.01.2022	no requirements	1481	+/-163	
Ł	2 - chloroethanol	mg/kg	A	PB-301/LF ed. 3 of 06.09.2022	no requirements	< 0,036		
Ł	Ethylene oxide	mg/kg	A	PB-301/LF ed. 3 of 06.09.2022	no requirements	< 0,020		
Ł	Ethylene oxide (sum of ethylene oxide and 2-chloro-ethanol expressed as ethylene oxide)	mg/kg	A	PB-301/LF ed. 3 of 06.09.2022	no requirements	< 0,020		


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 employee, is delivered by a courier company or delivered personally by the customer).
** - 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 instruction so 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" or "> value of the upper limit of the measuring range", respectively. If expanded uncertainties are given with these test results, they apply to the lower or upper limit of the measuring range of the method. Moreover, in the case of these results, the conformity statement should be treated as an opinion and interpretation. The above-described procedure does not apply to biological tests.
The results relate to the tested samples (sampled or received - as reported in the test report).
In the case of samples provided by the customer, the information presented in the report regarding these samples is the information provided by the customer. The Laboratory is not responsible for this information or for the method of sampling and the representativeness of the samples provided by the customer for testing.
The test report includes test results of the following number of samples: 1 pc(s) and 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 (location codes): Ł - Łajski, L - Lublin, M - Mysłowice, PS - in situ measurement.

Remarks:

Vitamin C = 22.2 /- 2.4 mg/2 tablets

The second selective medium for detecting the presence of *Listeria monocytogenes* in accordance with PN-EN ISO 11290-1:2017-07 is Palcam - incubation at 37°C ± 1°C. 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/A1:2020-09 is RVS broth and Brilliance *Salmonella*/Agar. Braid Parker RPF/agar was used for the detection of 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.

Report prepared in a single copy		The end of the Report		Original of PDF: Customer, copy of PDF to: Laboratory archive	
Created on: 20-04-2023	Authorized by: GBA POLSKA employee no.: 2207 GBA POLSKA employee no.: 2337 GBA POLSKA employee no.: 2490 GBA POLSKA employee no.: 2565	Approved by: Senior Food Specialist GBA POLSKA employee no.: 2653	Signed with a qualified electronic signature 		

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GBA POLSKA Sp. z o.o.

Lajski ul. Koscielna 2a
05-119 Legionowo
Poland



Our sign: MJ
Date: 19.04.2023

Certificate of analysis 23016731 - 001

Sample name : Product name: SFD FOR STRONG JOINTS 180 tab

Marking of sample : 11514/04/23

Customer No. : P/166/04/2023

Packaging : plastic package

Sample amount : 1 x 27 g

Shipping of sample : Courier Service

Sample entry : 14.04.2023

Entrance temperature : Room temperature

Sample taken : by sender

Begin/end of analysis : 14.04.2023 / 19.04.2023

The results are only based on the items tested. GBA takes no responsibility for the validity of the sampling if the samples are neither taken by GBA nor on behalf of GBA. In such cases, the results refer to the sample as it is received. The GBA test report may not be published without the express written consent of the GBA Group, nor may excerpts of it be reproduced without permission. GBA decision rules can be seen in the general terms and conditions.

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Certificate of analysis : 23016731 - 001

Sample name : Product name: SFD FOR STRONG JOINTS 180 tab

Test Results

<i>Chemical/Physical Test</i>	<i>Result</i>	<i>Unit</i>	<i>± MU</i>	<i>MU[%]</i>
Pyrrolizidine alkaloids				50
Echimidine N-oxide	<10	µg/kg		50
Heliosupine N-oxide	<10	µg/kg		50
Echimidine/Heliosupine, sum	<10	µg/kg		50
Echinatine N-oxide	<10	µg/kg		50
Europine	<10	µg/kg		50
Europine N-oxide	<10	µg/kg		50
Heliotrine	<10	µg/kg		50
Heliotrine N-oxide	<10	µg/kg		50
Integerrimine N-oxide/Senecionine N-oxide, sum	<10	µg/kg		50
Intermedine	<10	µg/kg		50
Intermedin N-oxide/Indicine N-oxide, sum	<10	µg/kg		50
Lasiocarpine	<10	µg/kg		50
Lasiocarpine N-oxide	<10	µg/kg		50
Lycopsamine/Indicine, sum	<10	µg/kg		50
Lycopsamine N-oxide	<10	µg/kg		50
Retrorsine/Usaramine, sum	<10	µg/kg		50
Retrorsine N-oxide/Usaramine N-oxide, sum	<10	µg/kg		50
Rinderine/Echinatine, sum	<10	µg/kg		50
Rinderine N-oxide	<10	µg/kg		50
Senecionine	<10	µg/kg		50
Seneciphylline	<10	µg/kg		50
Seneciphylline N-oxide	<10	µg/kg		50
Senecivernine/Integerrimine, sum	<10	µg/kg		50
Senecivernine N-oxide	<10	µg/kg		50
Senkirkine	<10	µg/kg		50
Spartioidine	<10	µg/kg		50
Spartioidine N-oxide	<10	µg/kg		50
Erucifoline	<10	µg/kg		50
Erucifoline N-oxide	<10	µg/kg		50
Jacobine	<10	µg/kg		50
Jacobine N-oxide	<10	µg/kg		50
Monocrotaline	<10	µg/kg		50
Monocrotaline N-oxide	<10	µg/kg		50
Trichodesmine	<10	µg/kg		50
Pyrrolizidine alkaloids, sum BfR-28	not detectable	µg/kg		50
Pyrrolizidine alkaloids, sum VO 2020/2040	not detectable	µg/kg		50

Certificate of analysis : 23016731 - 001

Sample name : Product name: SFD FOR STRONG JOINTS 180 tab

Hamburg, 19.04.2023

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Methods

<i>Parameter</i>	<i>Method</i>
Pyrrolizidine alkaloids	HM-MA-M 02-055, LC-MS/MS: 2022-01 ^a ₃
Pyrrolizidine alkaloids, sum BfR-28	calculated ₃
Pyrrolizidine alkaloids, sum VO 2020/2040	calculated ₃

With ^a marked methods are accredited.

Testing laboratory: ₃GBA Hameln