

TRIAS CR s.r.o.

Pistovy 848
53701 Chrudium
Czech Republic



Contact person:
Michael Poloczek
Phone +49 40 797172-792
m.poloczek@gba-group.de

Certificate of analysis 25051558 - 001

Sample name : blue poppy seeds
Marking of sample : lot: P25SP199
Customer No. : none
Packaging : Plastic package
Sample amount : 1 x 245 g
Shipping of sample : Courier Service
Sample entry : 20.10.2025
Entrance temperature : Room temperature
Sample taken : by sender
Begin/end of analysis : 20.10.2025 / 28.10.2025

The test results apply only to the test items described in the report. No responsibility is accepted for the validity of the results if any data or information provided by the customer may affect them. Data provided by the customer are clearly identified. The laboratory assumes no responsibility for the sampling unless it was carried out by samplers from a company within the GBA Group or on its behalf. In this case, the results apply to the sample as received. The test report may not be published or reproduced, in whole or in part, without the written consent of the issuing company. The general terms and conditions are available at <https://www.gba-group.com/en/general-terms-and-conditions/>.



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Test Results

<i>Microbiological Test</i>	<i>Result</i>	<i>Unit</i>
Salmonella	negative	/ 125 g

<i>Chemical/Physical Test</i>	<i>Result</i>	<i>Unit</i>	<i>± MU</i>	<i>MU Source</i>	<i>ML</i>
Opium alkaloids					
Morphine	2,7	mg/kg	1,4	III	
Codeine	0,78	mg/kg	0,39	III	
Opium alkaloids, sum	2,8	mg/kg	1,4	III	20
Cadmium	0,39	mg/kg	0,078	I	1,2
Aflatoxins					
Aflatoxin B1	<0,50	µg/kg		VI	
Aflatoxin B2	<0,50	µg/kg		VI	
Aflatoxin G1	<0,50	µg/kg		VI	
Aflatoxin G2	<0,50	µg/kg		VI	
Aflatoxins, sum	not detectable	µg/kg		VI	
Gluten	<5,0	mg/kg		I	

The sum of Opium alkaloids refers to morphine and codeine, for which a factor of 0,2 is applied to the level of codeine. Opium alkaloids, sum = morphine + 0,2 x codeine.

Maximum level(s) according to Regulation (EU) 2023/915

<i>Pesticides and related substances</i>	<i>Result</i>	<i>Unit</i>	<i>± MU</i>	<i>MU Source</i>	<i>ML</i>
Glyphosate / AMPA					
Glyphosate	<0,010	mg/kg		II	0,1
AMPA	<0,010	mg/kg		II	
Pesticides, GC-MS/MS					
Hexachlorobenzene	0,013	mg/kg	0,0065	II	0,02
Chlorpyrifos ethyl	0,013	mg/kg	0,0065	II	0,01
DDE-p,p	0,003	mg/kg	0,0015	II	
DDT, total	<0,005	mg/kg		II	0,05
Pesticides, LC-MS/MS					
Azoxystrobin	0,025	mg/kg	0,013	II	0,5
Acetamiprid	0,030	mg/kg	0,015	II	0,3

Scope of analyzed pesticides GC-MS/MS / LC-MS/MS: according to list of pesticides GÖST (05/08/2024)
Pesticide maximum level(s) according to category Poppy seeds (EU-Code: 0401030).

Assessment:

Results of pesticide analysis meet the requirements of the Regulation (EC) 396/2005 on maximum residue levels of pesticides. It is noted that the concentration of Chlorpyrifos ethyl exceeds the maximum level. However taking

MU: measurement uncertainty, dm: dry mass, <: measured value below the reporting limit, D: Declaration according to prepackage, CS: customer specification, ML:

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of pesticides. It is noted that the concentration of Chlorpyrifos ethyl exceeds the maximum level. However, taking into account a default measurement uncertainty of +/-50 % (SANTE/11312/2021) this exceedance is not significant.

Results of opium alkaloids, aflatoxins and cadmium analyses meet the requirements of Regulation (EU) 2023/915.

Hamburg, 28.10.2025

This test report is done automatically and is valid without signature.

i. A. A. Karentzopoulos

(Approved Food Chemist / Customer Service)

Methods

Parameter	Method	DR
Salmonella	DIN EN ISO 6579-1: 2020-08 ^a ₀	m
Opium alkaloids	HM-MA-M 02-022, LC-MS/MS: 2025-03 ^a ₃	y
Opium alkaloids, sum	calculated α	
Cadmium	DIN EN 15763, ICP-MS: 2010-04 ^a ₅	y
Pressure pulping	§ 64 LFGB L 00.00-19/1: 2015-06 ^a ₀	q
Aflatoxins	§ 64 LFGB L 15.00-2, HPLC-FLD: 2014-02 ^a ₀	y
Aflatoxins, sum	calculated α	
Gluten	R-Biopharm AG RIDASCREEN Gliadin R7001, ELISA: 2021-10 ^a ₃	z
Glyphosate / AMPA	HH-MA-M 02-155 (QuPPE), LC-MS/MS: 2024-09 ^a ₀	y
Pesticides, GC-MS/MS	§ 64 LFGB L 00.00-115, mod.: 2018-10 ^a ₀	y
Pesticides, LC-MS/MS	§ 64 LFGB L 00.00-115, mod.: 2018-10 ^a ₀	y

The methods marked with ^a are accredited methods of the performing laboratory.

Testing laboratory: ₀GBA Hamburg ₃GBA Hameln α automatically calculated from the system ₅GBA Pinneberg

MU-Source:

III: According to Implementing Regulation (EU) 2023/2783 (Plant Toxins)

I: According to DIN ISO 11352 as expanded, combined measurement uncertainty with $k = 2$ (95 %), sampling not included

II: According to SANTE/11312/2021

VI: According to Implementing Regulation (EU) 2023/2782 (Mycotoxins)

Decision rules:

m: The conformity assessment of microbiological measured values is performed without considering additional analytical measurands.

y: In conformity assessment, measurement uncertainty is disregarded for measured values below the tolerance limit. For measured values exceeding the tolerance limit, measurement uncertainty is subtracted from the measured value. If no conformity assessment is performed, measurement uncertainty serves as informational data only.

q: The conformity assessment of qualitative measurement values (positive/negative, conforms/ does not conform) is performed without considering additional analytical measurands.

z: In conformity assessment, measurement uncertainty is disregarded and serves as informational data only.

AMPA: This substance is not classified as a pesticide in the EU. Therefore, there is no maximum level according to Regulation (EU) 396/2005. This information is provided for information purposes only.

DDT, total: sum of p,p'-DDT, o,p'-DDT, p,p'-DDE (factor: 1,12) and p,p'-TDE (DDD) (factor: 1,11) expressed as DDT