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Certificate of analysis 25058648 - 001

Sample name : blue poppy seed

Marking of sample : lot: P25SP220

Customer No. : none

Packaging : Plastic package

Sample amount : 1 x 396 g

Shipping of sample : Courier Service

Sample entry : 27.11.2025

Entrance temperature : Room temperature

Sample taken : by sender

Begin/end of analysis : 27.11.2025 / 05.12.2025

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 The test report may not be published or reproduced, in whole or in part, without the written consent of the issuing company.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

Microbiological Test	Result	Unit
Salmonella	negative	/ 125 g

Chemical/Physical Test	Result	Unit	± MU	MU Source	ML
Opium alkaloids					
Morphine	11	mg/kg	5,5	III	
Codeine	4,7	mg/kg	2,4	III	
Opium alkaloids, sum	12	mg/kg	6	III	20
Cadmium	0,30	mg/kg	0,06	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	
Mineral oil hydrocarbons					
MOSH/POSH (C10-16)	<1,0	mg/kg		I	
MOSH/POSH (C17-20)	<1,0	mg/kg		I	
MOSH/POSH (C21-25)	<1,0	mg/kg		I	
MOSH/POSH (C26-35)	<1,0	mg/kg		I	
MOSH/POSH (C36-40)	<1,0	mg/kg		I	
MOSH/POSH (C41-50)	<1,0	mg/kg		I	
MOSH/POSH (sum) C10-50	<1,0	mg/kg		I	
MOAH (C10-16)	<1,0	mg/kg		I	
MOAH (C17-25)	<1,0	mg/kg		I	
MOAH (C26-35)	<1,0	mg/kg		I	
MOAH (C36-50)	<1,0	mg/kg		I	
MOAH (sum) C10-50	<1,0	mg/kg		I	

A discrepancy between the results of the sum parameters "MOSH/POSH (sum) C10-50" and "MOAH (sum) C10-50" and the sum of the individual results of the MOSH/POSH or MOAH fractions is due to the fact that - in accordance with the recommendations of the Joint Research Center - the determination of the total sum must also include contents of the individual fractions below the respective determination limits (total integration of the hump, no mathematical addition of the individual fractions).

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.

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Pesticides and related substances	Result	Unit	± MU	MU Source	ML
Glyphosate / AMPA					
Glyphosate	<0,010	mg/kg		II	0,1
AMPA	<0,010	mg/kg		II	
Pesticides, GC-MS/MS	not detectable				
Pesticides, LC-MS/MS					
Chloridazon, desphenyl-	0,022	mg/kg	0,011	II	
Chloridazon, total	0,034	mg/kg	0,017	II	0,04

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.

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

Hamburg, 05.12.2025

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

i. A. M. Poloczek

(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
Mineral oil hydrocarbons	HH-MA-M 03-055 # U, LC/GC-FID: 2023-05 ^a ₀	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

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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.

Clean up for mineral oil hydrocarbons by: Epoxidation with mCPBA in ethanol.

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

Chloridazon, total: sum of chloridazon and chloridazon-desphenyl (factor: 1,52), expressed as chloridazon