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Person in charge: Thomas Gronewold

Report date: 18/12/2023

Certificate of analysis: AR-733-2023-10191981-01

Sample code: 733-2023-10191981

Sample description	Loris Turmeric Ground 50 Mesh Organic
Number of sample containers	6
Total Weight	1816g
Sample reception date	23/11/2023
Start / end of analyses	27/11/2023 / 18/12/2023
Reception temperature	Room Temperature
Delivered by	DHL
Packaging type	plastic bag, sealed

Sample information provided by the customer

Customer reference	LORI50O
Lot-no.	23006691
Best before date	Nov 20, 2025
Project name	PO-2303646
Ordered by	Results
Submitted by	Anggita Rianti
Physical sample number	1

The results of the examination refer exclusively to the checked samples. Any publication of this report requires written permission. An excerpt publication is not allowed.
Sample data provided by the customer may have an influence on the validity of the test results and the assessment of results.

TEST RESULTS

Sample Analytical Portion

Physical-chemical analysis

J1001-8 Sample preparation (#)

Method: DIN EN 13805 (2014-12), mod., CON-PV 00001 (2023-09), Digestion (microwave)
Modification: extension of scope for feed, tobacco and tobacco products; direct digestion

Parameter	Unit	Result
Sample preparation		done

J8312-5 Arsenic (As) (#)

Method: DIN EN 15763:2010 (2010-04), mod., CON-PV 01274 (2023-09), ICP-MS
Modification: incl. ICP-MS/MS, extension of the analysis parameters, extension of the application scope to feed and Tobacco and tobacco products

Parameter	Unit	Result	LOQ
Arsenic (As)	mg/kg	< 0.10	0.1

J8306-5 Lead (Pb) (#)

Method: DIN EN 15763:2010 (2010-04), mod., CON-PV 01274 (2023-09), ICP-MS
Modification: incl. ICP-MS/MS, extension of the analysis parameters, extension of the application scope to feed and Tobacco and tobacco products

Parameter	Unit	Result	LOQ
Lead (Pb)	mg/kg mg/kg	0.13 ± 0.05	0.05

J8308-5 Cadmium (Cd) (#)

Method: DIN EN 15763:2010 (2010-04), mod., CON-PV 01274 (2023-09), ICP-MS
Modification: incl. ICP-MS/MS, extension of the analysis parameters, extension of the application scope to feed and Tobacco and tobacco products

Parameter	Unit	Result	LOQ
Cadmium (Cd)	mg/kg mg/kg	0.21 ± 0.04	0.01

JCHG2-5 Mercury (Hg) (#)

Method: DIN EN 15763:2010 (2010-04), mod., CON-PV 01274 (2023-09), ICP-MS
Modification: incl. ICP-MS/MS, extension of the analysis parameters, extension of the application scope to feed, tobacco and tobacco products

Parameter	Unit	Result	LOQ
Mercury [Hg]	mg/kg	< 0.005	0.005

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Place of execution: Hamburg, Place of jurisdiction: Hamburg
Amtsgericht Hamburg HRB 106641
General Managers: Dr. Claudia Schulz

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TEST RESULTS

Sample Analytical Portion

Physical-chemical analysis

JJP01-4 Sample preparation (0 to 4 kg) for Afla/OTA (Slurry preparation)(#)

Method: ASU LFGB L 00.00-111/1, (2008-12), mod., CON-PV 00832 (2023-07), Homogenisation
Modification: aliquoting, extension of scope for feed

Parameter	Unit	Result
weight for slurry	g	999
water additional (slurry)	%	300

JJ0EW-5 Aflatoxin B1, B2, G1, G2 (spices, special matrix) (#)

Method: DIN EN 14123 (2008-03), mod., CON-PV 00873 (2023-11), IAC-LC-FLD
Modification: Expansion of application to foodstuffs in general and feed, adaptation of the extracting solvent and measurement conditions

Parameter	Unit	Result	LOQ
Aflatoxin B1	µg/kg	< 1.0	1
Aflatoxin B2	µg/kg	< 1.0	1
Aflatoxin G1	µg/kg	< 1.0	1
Aflatoxin G2	µg/kg	< 1.0	1
Sum of all positive Aflatoxins	µg/kg	(n.c.) [4)]	

JJ0G5-5 Ochratoxin A (spices, special matrix)(#)

Method: DIN EN 14132 (2009-09), mod., CON-PV 00850 (2023-11), IAC-LC-FLD
Modification: modification of extraction solvent, additional post-column derivatisation; extension of the application scope to feed, tobacco and tobacco products

Parameter	Unit	Result	LOQ
Ochratoxin A	µg/kg	< 2.0	2

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TEST RESULTS

Sample Analytical Portion

Microbiology

UM86U-4 1) **Aerobic Plate Count 30°C <100 >100 000 000 /g ISO 4833-2/WASP** (#)

Method: ISO 4833-2, 2014-05, E-Cultural technique (spiral plate)

Parameter	Unit	Result
Aerobic Plate Count 30°C	cfu/g	700

UMH7G-2 1) **Escherichia coli <10 >1 500 /g ISO 16649-2** (#)

Method: ISO 16649-2:, 2009-12, E-Cultural technique (chromogenic media)

Parameter	Unit	Result
Escherichia coli 44°C	cfu/g	< 10

UMU0Y-2 2) **Escherichia coli O157 Abs Pres /25 g Internal Method**

Method: Internal Method, 2013-04; VA10-013-V13, D-Cultural technique (non-chromogenic media)

Parameter	Unit	Result
Escherichia Coli O157	/25 g	Not Detected

UMY1A-3 1) **Moulds/Yeasts (aw ≤ 0.95) <10 >4 500 /g ISO 21527-2** (#)

Method: ISO 21527-2, 2008-07, E-Cultural technique (non-chromogenic media)

Parameter	Unit	Result
Yeasts 25°C	cfu/g	< 10
Moulds 25°C	cfu/g	< 10

ZM8RK-1 1) **Coliforms 30°C <10 >1 500 /g ISO 4832** (#)

Method: ISO 4832, 2006-02, E-Cultural technique (non-chromogenic media)

Parameter	Unit	Result
Coliforms 30°C	cfu/g	< 10

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TEST RESULTS

Sample Analytical Portion

Microbiology

ZMDFG-1 3) **Salmonella spp. Abs Pres /375 g ISO 6579-1** (#)

Method: ISO 6579-1, :2017-02 , D-Cultural technique (non-chromogenic media)

Parameter	Unit	Result
Salmonella	/375 g	Not Detected

#: The performing laboratory is accredited for this test.

1) The determination has been outsourced to Eurofins BioTesting Services Nord (Hamburg), Germany
2) The determination has been outsourced to Eurofins INLAB GmbH Dortmund (Otto-Hahn-Strasse), Germany
3) The determination has been outsourced to Eurofins BioTesting Services Ost (Berlin), Germany

LOQ: limit of quantification

LOD: limit of detection

result +/- extended measurement uncertainty (95%; k=2), sampling not included

Result comment

4) Not calculable

Signature:

Thomas Gronewold

Analytical Service Manager (Dr. Thomas M. A. Gronewold)

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