

EL spol. s r.o.

Radlinského 17A, 052 01 Spišská Nová Ves

Accredited testing laboratories according to ISO/IEC 17025: 2017

SNAS Reg. No. 038/S-025

TEST REPORT No.: 23/20685

Customer – test orderer

Client: ZAMAGRO spol. s r.o. **Sample receipt date:** 24.11.2023

(name and address) 1. mája 302, 06101 Spišská Stará Ves **Tests performed from:** 24.11.2023

Sender: ZAMAGRO Spišská Stará Ves **to:** 14.12.2023

Contract / order: of 24.11.2023 **Report issue date:** 14.12.2023

Job No.: 23-10367 **Number of samples:** 1

Sample taken by: Client

Accreditation does not apply to tests of type N.

No.: 1 **Sample No.:** 23-023081 **Sample type:** Fertilizers, soil improvers and growing substrates **Section:** Chemical analysis

Sample designation	Parameter	Unit	Test result	Test method	Limit of determination	Method specification
--------------------	-----------	------	-------------	-------------	------------------------	----------------------

						/ Test type
Flovium	pH	-	9.8	Potentiometry	1.0	IP 2.11 / A
	Dry matter	%	87.48	Gravimetric analysis	0.05	IP 3.19 / A
	Loss on ignition at 550°C	% of dry matter	53.88	Gravimetric analysis	0.05	IP 3.5b / A
	Total N	% of dry matter	2.77	Volumetric analysis	0.01	IP 3.22a / A
	Total P (as P ₂ O ₅)	% of dry matter	2.39	AES-ICP	0.10	IP 1.31b / A
	Total K (as K ₂ O)	% of dry matter	6.99	AES-ICP	0.01	IP 1.24b / A
	Calcium (Ca)	% of dry matter	3.25	AES-ICP	0.10	IP 1.9b / A
	Magnesium (Mg)	% of dry matter	0.80	AES-ICP	0.1	IP 1.26b / A
	Particles under 20 mm	%	100.0	Gravimetric analysis	0.1	IP 3.6 / A
	Cadmium (Cd)	mg/kg dry matter	1.0	AAS-F	0.3	IP 1.10a / A
	Arsenic (As)	mg/kg dry matter	1.9	AAS-HG	0.3	IP 1.3a / A
	Mercury (Hg)	mg/kg dry matter	0.053	AAS-AMA	0.002	IP 1.22a / A
	Chromium (Cr)	mg/kg dry matter	8	AES-ICP	2	IP 1.14b / A
	Nickel (Ni)	mg/kg dry matter	17	AAS-F	3	IP 1.30a / A

	Lead (Pb)	mg/kg dry matter	8	AAS-F	3	IP 1.32a / A
--	-----------	------------------	---	-------	---	--------------

Abbreviation	Method name
AAS-AMA	Atomic absorption spectrometry – mercury analyzer
AAS-F	Atomic absorption spectrometry – flame atomization
AAS-HG	Atomic absorption spectrometry – hydride generation
AES-ICP	Atomic emission spectrometry – inductively coupled plasma
GA	Gravimetric analysis
OA	Volumetric (titrimetric) analysis
Potenc.	Potentiometry

Used abbreviations: IP – internal procedure.

Test type: A – accredited, N – non-accredited, T – field test, S – subcontract (external service).

Measurement uncertainties for all tests are available for review at the testing laboratory.

Declarations and notices:

- This report may be reproduced only in full; reproduction of any part requires the laboratory's consent.
- The results refer only to the tested samples and do not constitute approval of the tested item by the competent authority.
- If the sample was supplied by the customer, the laboratory is not responsible for sampling and the condition of the sample as received; the results relate to the sample as it was received.
- The laboratory is not responsible for information provided by the customer that may affect the validity of the results.
- The place of testing (including field and subcontract tests) is identical to the address stated in the header.

- Testing equipment and measuring instruments were calibrated and verified in accordance with applicable metrological regulations.
- Complaints regarding the test results may be submitted within 30 days from the date they were sent to the customer. Only written complaints are accepted and handled.

EL spol. s r.o.

Radlinského 17A, 052 01 Spišská Nová Ves

Accredited testing laboratories according to ISO/IEC 17025: 2017

SNAS Reg. No. 038/S-025

TEST REPORT No.: 23/20685

Recipient of the report:

ZAMAGRO spol. s r.o.

Report prepared by:

Ing. Vladimír Majerčák
Deputy Head of LPMS

Approved by:

Ing. Vladimír Majerčák
Deputy Head of LPMS

EL spol. s r.o.

Radlinského 17A, 052 01 Spišská Nová Ves

Accredited testing laboratories according to ISO/IEC 17025: 2017

SNAS Reg. No. 038/S-025

TEST REPORT No.: 23/19754**Customer – test orderer****Client:** ZAMAGRO spol. s r.o. **Sample receipt date:** 24.11.2023**(name and address)** 1. mája 302, 06101 Spišská Stará Ves **Tests performed from:** 24.11.2023**Sender:** ZAMAGRO Spišská Stará Ves **to:** 30.11.2023**Contract / order:** of 24.11.2023 **Report issue date:** 30.11.2023**Job No.:** 23-10367 **Number of samples:** 1**Sample taken by:** Client

No.:	Sample No.:	Sample type:	Section:
1	23-023081	Fertilizers, soil improvers and growing substrates	Microbiological analysis

Sample designation	Test / parameter	Unit	Test results (1-5)	Test method	Limit value (m; M)	Method specification / Test type

Flovium	Presence of Salmonella spp.	DNA/25 g	neg, neg, neg, neg, neg	PCR	absent	IP 15.2a (STN EN ISO 6579-1; STN EN ISO 22174) / A
	Escherichia coli count	CFU/g	<10, <10, <10, <10, <10	Culture method	m = 1.0×10^3 ; M = 5.0×10^3	IP 7.42 (STN ISO 16649-2) / A

Explanatory notes

- <1 corresponds to symbol 0a – not present in 1 ml of undiluted liquid sample
- <10 corresponds to symbol 0b – not present in 1 ml of diluted sample (10^{-1})
- <5 corresponds to symbol 0c – not present in 0.2 ml of diluted liquid sample
- <50 corresponds to symbol 0d – not present in 0.2 ml of diluted sample (10^{-1})
- <100 corresponds to symbol 0e – not present in 1 ml of diluted sample (10^{-2})
- m – maximum permitted value for single-sample assessment
- M – maximum permitted value when the number of samples $c = 2$ out of 5 in a five-sample assessment

Abbreviations used: IP – internal procedure; CFU – colony forming units; A – accredited test; N – non-accredited test; PCR – polymerase chain reaction; DNA – deoxyribonucleic acid.

Measurement uncertainties for all tests are available for review at the testing laboratory.

Statement of conformity / non-conformity of test results with requirements

Values of the parameters determined in the tested sample
C O M P L Y

with the limit values laid down in Commission Regulation (EU) No 142/2011 of 25 February 2011, which implements Regulation (EC) No 1069/2009 laying down health rules concerning animal by-products and derived products not intended for human consumption, and which implements Council Directive 97/78/EC as regards certain samples and items subject to veterinary checks at the border under that directive.

- The statement of conformity/non-conformity is provided at the customer's request and was prepared on the basis of a comparison of the results reported herein with the

limit values specified in Commission Regulation (EU) No 142/2011.

- When issuing the statement of conformity/non-conformity, the laboratory applies the decision rule specified by the customer.

Declarations and notices:

- This report may be reproduced only in full; reproduction of any part requires the laboratory's consent.
- The results refer only to the tested samples and do not constitute approval of the tested item by the competent authority.
- If the sample was supplied by the customer, the laboratory is not responsible for sampling and the condition of the sample as received; the results relate to the sample as it was received.
- The laboratory is not responsible for information provided by the customer that may affect the validity of the results.
- The place of testing (including field and subcontract tests) is identical to the address stated in the header.
- Testing equipment and measuring instruments were calibrated and verified in accordance with applicable metrological regulations.
- Complaints regarding the test results may be submitted within 30 days from the date they were sent to the customer. Only written complaints are accepted and handled.

Recipient of the report: ZAMAGRO spol. s
r.o.

Report prepared by: MVDr. Mária Holevová Approved by: RNDr. Eva Tóthová
Head of LMB