

CERTIFICATE OF ANALYSIS

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SECTION 1 · PRODUCT SPECIFICATION

Product Name	Vilgain Creatine 500 g Unflavoured
PV Number	PV41573
Category	Sport Nutritions; Creatine
Batch No.	S040526
Expiry Date	04.05.2028

SECTION 2 · LABORATORY TEST RESULTS

2.1 Microbiological Parameters

Parameter	Method	LOR	Unit	Result
Aerobic Plate Count 30°C	CSN EN ISO 4833-1	10	CFU/g	<10
Escherichia coli	CSN ISO 16649-2	10	CFU/g	<10
Coliforms 37°C	CSN ISO 4832	10	CFU/g	<10
Yeast	SOP.MB.014.PB	10	CFU/g	<10
Moulds	SOP.MB.014.PB	10	CFU/g	<10
Salmonella	CSN EN ISO 6579-1	—	/25 g	Not Detected
Staphylococcus aureus	CSN EN ISO 6888-1	10	CFU/g	<10

Laboratory: Eurofins Food & Feed Testing Czech Republic s.r.o., Radiova 1285/7, 102 00 Praha 10

2.2 Heavy Metals

Parameter	Method	LOR	Unit	Result
Arsenic (As)	W3401 + W3407	0.02	mg/kg	<0.02
Cadmium (Cd)	W3401 + W3407	0.01	mg/kg	<0.01
Lead (Pb)	W3401 + W3407	0.01	mg/kg	<0.01
Mercury (Hg)	W3401 + W3407	0.01	mg/kg	<0.01

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2.3 Chemical Composition

Parameter	Result	Expanded Uncertainty
Creatine	100.3 wt%	+/- 1.7 wt%
Creatinine	0.214 wt%	+/- 0.006 wt%
Dicyandiamide	<0.01 wt%	—
Dihydrotriazine (1,3,5-triazine)	not detected	—

Laboratory: University of Chemistry and Technology Prague, Metrological and Testing Laboratory UCT Prague, Technická 1905/5, 166 28 Prague 6

SECTION 3 · ANALYTICAL METHOD SUMMARIES

Eurofins Food & Feed Testing Czech Republic s.r.o. — Zkusebni laborator EUROFINS CZ, accredited per EN ISO/IEC 17025:2018 (L 1546)

Method	Description
CSN EN ISO 4833-1	Aerobic Plate Count 30°C — cultural technique (non-chromogenic media).
CSN ISO 16649-2	Escherichia coli — cultural technique (chromogenic media).
CSN ISO 4832	Coliforms 37°C — cultural technique (non-chromogenic media).
SOP.MB.014.PB	Yeast and Moulds — cultural technique (non-chromogenic media).
CSN EN ISO 6579-1	Salmonella — cultural technique (non-chromogenic media).
CSN EN ISO 6888-1	Staphylococcus aureus — cultural technique (non-chromogenic media).
W3401 + W3407	Heavy metals (As, Cd, Pb, Hg) — ICP-MS; digestion per NEN-EN 13805 (Internal Method). Subcontracted accredited test.

University of Chemistry and Technology Prague, Metrological and Testing Laboratory UCT Prague — Testing Laboratory No. 1316.2, accredited per EN ISO/IEC 17025:2018

Method	Description
UHPLC-DAD-HRMS/MS	Determination of creatine content by UHPLC with UV detection (DAD, 214 nm) and high-resolution mass spectrometry; HILIC chromatography. Test Certificate ML 859/26, Appendix No. 1.
KM15 (UHPLC-HRMS/MS)	Targeted screening and quantification of impurities (creatinine, dicyandiamide, dihydrotriazine) by UHPLC-HRMS/MS; accredited per ISO 17025; LOQ for dicyandiamide: 0.01 wt%. Test Certificate ML 859/26, print no. ENG_311/26.

Quality Department · Vilgain s.r.o.