

# CERTIFICATE OF ANALYSIS

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## SECTION 1 · PRODUCT SPECIFICATION

Product Name	Vilgain Creatine 500 g Orange and Mango
PV Number	PV45659
Category	Sport Nutritions; Creatine
Batch No.	04856
Expiry Date	05.05.2028

## SECTION 2 · LABORATORY TEST RESULTS

### 2.1 Microbiological Parameters

Parameter	Method	LOR	Unit	Result
Coliform Bacteria	B-COLIF1	10	CFU/g	<10
Escherichia coli	B-EC1	10	CFU/g	<10
Moulds	B-YEMOU1	10	CFU/g	<10
Salmonella spp.	B-SALMELI1	—	—	negative/25 g
Staphylococcus aureus	B-STAPH1	10	CFU/g	<10
Total Viable Count	B-TVC1	10	CFU/g	<10
Yeast	B-YEMOU1	10	CFU/g	<10

Laboratory: ALS Czech Republic, s.r.o., Na Harfe 336/9, Prague 9

### 2.2 Heavy Metals

Parameter	Method	LOR	Unit	Result
Arsenic	B-METAXDG2	2.0	mg/kg	<2.0
Cadmium	B-METAXDG2	0.10	mg/kg	<0.10
Lead	B-METAXDG2	1.0	mg/kg	<1.0
Mercury	B-HG-AMAT	0.0030	mg/kg	<0.0030

Laboratory: ALS Czech Republic, s.r.o., Na Harfe 336/9, Prague 9

## 2.3 Chemical Composition

Parameter	Result	Expanded Uncertainty
Creatine	88.7 wt%	+/- 1.6 wt%
Creatinine	0.210 wt%	+/- 0.018 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, Technicka 1905/5, 166 28 Prague 6

## SECTION 3 · ANALYTICAL METHOD SUMMARIES

ALS Czech Republic, s.r.o. — Testing Laboratory No. 1163, accredited by CAI per CSN EN ISO/IEC 17025:2018

Method	Description
B-COLIF1	CSN ISO 4832. Enumeration of coliform bacteria by cultivation.
B-EC1	CSN ISO 16649-2. Enumeration of beta-glucuronidase-positive Escherichia coli by cultivation.
B-HG-AMAT	CZ_SOP_D06_09_024 (CSN 75 7440). Determination of Hg by atomic absorption spectrometry.
B-METAXDG2	CZ_SOP_D06_09_001 (US EPA Method 200.7, CSN EN ISO 11885). Determination of elements by ICP-AES; sample homogenized and mineralized by acids and H2O2.
B-SALMELI1	CZ_SOP_D06_09_309. Detection of Salmonella by ELISA (Solus). Enrichment and confirmation per CSN EN ISO 6579-1.
B-STAPH1	CSN EN ISO 6888-1. Enumeration of coagulase-positive staphylococci by cultivation.
B-TVC1	CSN EN ISO 4833-1. Enumeration of microorganisms by cultivation.
B-YEMOU1	CSN ISO 21527-1; CSN ISO 21527-2. Enumeration of yeasts and moulds by cultivation.

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 995/26, 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 995/26, print no. ENG_392/26.

Quality Department · Vilgain s.r.o.