creaVerum®

DOC COA·CRV·500
BATCH QS-26-01
ISSUED 2 NOV 2026
STATUS Issued

TRADEMARK INGREDIENT · CREATINE MONOHYDRATE

Certificate of Analysis

Batch-specific Certificate of Analysis for CreaVerum® Creatine Monohydrate, reporting the independent EU laboratory results for the lot identified against the controlled product specification.

LOT REFERENCE	DATE OF ANALYSIS	COUNTRY OF ORIGIN	SPECIFICATION
QS-26-01	Oct 2026	China	TDS·CRV·500
Internal lot code	EU laboratories	Raw material	rev. 1.4

This lot conforms to specification.

CreaVerum® Creatine Monohydrate · micronised, 500 mesh grade · $C_4H_9N_3O_2 \cdot H_2O$ · CAS 6020-87-7 · MW 149.15 g/mol

GRADE	APPEARANCE	TESTED IN	CERTIFICATE NO.
500 mesh, micronised	White powder	European Union	CRV·CoA·QS-26-01

PARAMETER	SPECIFICATION	RESULT	METHOD	VERDICT
PHYSICAL & CHEMICAL CHARACTERISTICS				
Appearance	White powder	**White powder**	Visual	PASS
Identification	Conforms to reference std.	**Conforms**	HPLC	PASS
Assay (on the dried basis)	≥99.9%	**100.6%**	HPLC	PASS
Loss on drying	≤12.0%	**11.3%**	USP<731>	PASS
Creatinine	≤100 ppm	**65 ppm**	HPLC	PASS
Dicyandiamide (DCD)	≤50 ppm	**12 ppm**	HPLC	PASS
Dihydrotriazine (DHT)	≤5 ppm	**<5.0 ppm**	HPLC	PASS
Any unspecified impurity	≤0.10%	**0.07%**	HPLC	PASS
Total unspecified impurities	≤1.50%	**0.07%**	HPLC	PASS
Total impurities	≤2.00%	**0.07%**	HPLC	PASS
Lead (Pb)	≤1 ppm	**<0.05 ppm**	ICP-MS	PASS
Cadmium (Cd)	≤1 ppm	**<0.04 ppm**	ICP-MS	PASS
Mercury (Hg)	≤0.1 ppm	**<0.03 ppm**	AMA	PASS
Arsenic (As)	≤1 ppm	**<0.10 ppm**	ICP-MS	PASS
MICROBIOLOGICAL CHARACTERISTICS				
Total viable count	≤100 cfu/g	**<10 cfu/g**	Colony count	PASS
Yeasts and moulds	≤100 cfu/g	**<10 cfu/g**	Colony count	PASS
Enterobacteriaceae	Negative / g	**Not detected**	Colony count	PASS
Escherichia coli	Negative / g	**Not detected**	Colony count	PASS
Coagulase-positive staphylococci	Negative / g	**Not detected**	Colony count	PASS
Salmonella spp.	Negative / 25 g	**Not detected**	ELISA	PASS

Testing. Assay, identification and organic impurities are determined by the USP monograph procedure for creatine monohydrate at **SGS Institut Fresenius GmbH, Berlin (DE)**. Heavy metals and microbiological parameters are determined at **ALS Czech Republic, s.r.o., Prague (CZ)**, an ISO/IEC 17025 accredited laboratory (No. 1163). Full analytical data in Annex A; the original signed laboratory reports are available on request.

The results reported above conform to specification TDS·CRV·500 rev. 1.4. Storage: at normal temperature, away from heat and light. Shelf life 24 months from date of manufacture in original, unopened packaging.

Quality Manager
Verum Ingredients s.r.o. — authorised by

Proof a customer can check.

Identity, assay and organic purity are determined at **SGS Institut Fresenius GmbH, Berlin**; heavy metals and microbiology at ISO/IEC 17025-accredited **ALS Czech Republic, Prague**. The original signed laboratory reports are available on request — not a claim, the actual reports.

ANNEX A · ANALYTICAL REPORT SUMMARY

Annex A — Analytical data

TESTING LABORATORIES

LABORATORY 1

SGS Institut Fresenius GmbH
Berlin, Germany

SCOPE
Identity, assay, loss on drying and organic impurities

RECEIVED · REPORT
15 Oct 2026 · 2 Nov 2026

LABORATORY REFERENCE
Assignment 02A2602022 · sample 02S26006950

LABORATORY 2

ALS Czech Republic, s.r.o.
Prague, Czech Republic · ISO/IEC 17025 No. 1163

SCOPE
Heavy metals and microbiological parameters

RECEIVED · TESTING · REPORT
12 Oct 2026 · 12–21 Oct 2026 · 21 Oct 2026

LABORATORY REFERENCE
Protocol FP2627641 · sample 002

Sample description: white powder. Sampling: submitted by client. Internal sample identity: **QS-26-01**.

CHEMICAL TESTS — IDENTITY AND ORGANIC PURITY

Performed at SGS Institut Fresenius GmbH, Berlin

CODE	TEST ITEM	UNIT	TEST METHOD	RESULT	LOQ	LIMIT / VERDICT
1	Character	—	Visual inspection	White powder	—	PASS
2	Identification	—	USP monograph, identification	Conforms	—	PASS
3	Assay (dried basis)	%	USP monograph, HPLC	100.6	—	≥99.9 · PASS
4	Loss on drying	g/100 g	USP <731>	11.3	0.1	≤12.0 · PASS
5	Creatinine	mg/kg	USP monograph, HPLC	65	65	≤100 · PASS
6	Dicyandiamide (DCD)	mg/kg	USP monograph, HPLC	12	0.9	≤50 · PASS
7	Dihydrotriazine (DHT)	mg/kg	USP monograph, HPLC	<5.0	1.5	≤5 · PASS
8	Any unspecified impurity	%	USP monograph, HPLC	0.07	0.0065	≤0.10 · PASS
9	Total unspecified impurities	%	USP monograph, HPLC	0.07	—	≤1.50 · PASS
10	Total impurities	%	USP monograph, HPLC	0.07	—	≤2.00 · PASS

CHEMICAL TESTS — HEAVY METALS

Performed at ALS Czech Republic, s.r.o., Prague

CODE	TEST ITEM	UNIT	TEST METHOD	RESULT	LOQ	LIMIT / VERDICT
11	Lead (Pb)	mg/kg	ICP-MS after pressure digestion	<0.050	0.050	≤1 · PASS
12	Cadmium (Cd)	mg/kg	ICP-MS after pressure digestion	<0.040	0.040	≤1 · PASS
13	Mercury (Hg)	mg/kg	AMA — direct mercury analyser	<0.030	0.030	≤0.1 · PASS
14	Arsenic (As)	mg/kg	ICP-MS after pressure digestion	<0.10	0.10	≤1 · PASS

MICROBIOLOGICAL TESTS

Performed at ALS Czech Republic, s.r.o., Prague

CODE	TEST ITEM	UNIT	TEST METHOD	RESULT	LOQ	LIMIT / VERDICT
15	Total viable count	cfu/g	Colony count (EN ISO 4833-1)	<10	10	≤100 · PASS
16	Yeasts and moulds	cfu/g	Colony count (ISO 21527)	<10	10	≤100 · PASS
17	Enterobacteriaceae	/g	Colony count (ISO 21528-2)	Not detected	—	ABSENCE · PASS
18	Escherichia coli	/g	Colony count (ISO 16649-2)	Not detected	—	ABSENCE · PASS
19	Coagulase-positive staphylococci	/g	Colony count (EN ISO 6888-1)	Not detected	—	ABSENCE · PASS
20	Salmonella spp.	/25 g	ELISA (EN ISO 6579-1)	Not detected	—	ABSENCE · PASS

Remarks. "Not detected" = not detected below the stated limit of quantitation. LOQ = limit of quantitation. Results relate only to the sample tested. Limits are those of specification TDS·CRV·500 rev. 1.4.

This annex is CreaVerum's transcription of the laboratory data into the certificate. It is not a laboratory document and carries no accreditation mark. The original signed reports issued by SGS and ALS are available on request. Supplier and manufacturer identifiers in them are masked; the analytical results are shown in full and unaltered.