



Certificate of Analysis

COA-BA-1023-L001
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Product Details

Product Name	Creatine Monohydrate
IUPAC Name	2-(carbamimidoyl-methyl-amino)acetic acid monohydrate
Catalog No.	BA-1023
CAS No. (Monohydrate)	6020-87-7
CAS No. (Anhydrous)	57-00-1
Molecular Formula	C4H9N3O2.H2O
Lot No.	CRE260301
Mfg. Date	March 2026
Retest Date	March 2029
Grade	Biochemical Grade (>98%)

Document Information

COA No.	COA-BA-1023-L001
Issue Date	March 2026
Issued By	AuSaMicS Quality Control
Test Reference	In-house / Ph. Eur. / BP

Test Results & Analytical Data

Test Parameter	Specification	Method	Result	Status
Appearance	White to off-white crystalline powder; no discolouration	Visual inspection	Conforms	PASS
Identity (IR)	Conforms to Creatine Monohydrate reference spectrum	IR spectroscopy (KBr disc)	Conforms	PASS
Identity (LC-MS)	[M+H] ⁺ = 132 consistent with anhydrous MW 131.14	LC-MS	Confirmed	PASS
Purity (HPLC)	>98.0% (anhydrous basis)	HPLC reversed phase, UV 210 nm	98.9%	PASS
Water Content (KF)	11.5 - 13.5% w/w	Karl Fischer titration	12.2%	PASS



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Test Parameter	Specification	Method	Result	Status
Loss on Drying	<= 14.0% w/w	105 °C / 2 h (gravimetric)	12.4%	PASS
Creatinine (impurity)	<= 1.0% w/w	HPLC	0.31%	PASS
Dicyandiamide (DCD)	<= 10 ppm	HPLC	< 2 ppm	PASS
pH (1% aqueous solution)	6.5 - 8.0	Potentiometry (ISO 10523)	7.1	PASS
Heavy Metals (Pb equiv.)	<= 20 ppm	ICP-MS	< 5 ppm	PASS
Arsenic (As)	<= 1 ppm	ICP-MS	< 0.2 ppm	PASS
CAS Identity Verification	CAS 6020-87-7 / 57-00-1 confirmed	LC-MS vs. reference standard	Confirmed	CONFORM

Conclusion: Lot CRE260301 fully meets all release specifications for Creatine Monohydrate (CAS 6020-87-7). Purity 98.9% (>98% spec.), water content 12.2% (spec. 11.5-13.5%), creatinine 0.31% (<=1.0% spec.), dicyandiamide <2 ppm (<=10 ppm spec.). All heavy metals within limits. This lot is **RELEASED for use**.

Quality Control Analyst

AuSaMicS Quality Control Department
Date: March 2026 | Signature:

Hassan Salimi

Founder & Technical Director, AuSaMicS Pty Ltd
Date: March 2026 | Signature:

Disclaimer: AuSaMicS Pty Ltd (ABN 56 676 640 467) warrants that this product meets stated specifications at time of manufacture and release. For laboratory, biochemical research, and permitted food supplement use only. Not for human therapeutic use without appropriate authorisation. AuSaMicS Pty Ltd shall not be held liable for any damages resulting from use outside the intended application.