

Alzchem Order No.: 32274616

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Certificate of Analysis

Customer: Caldic Ingredients Benelux B.V.

Consignee: Caldic Ingredients Benelux B.V., 3433 KH Nieuwegein, Nederlande

Customer Order No.: PO024681

Product: **Creapure® (Creatine Monohydrate)**

Lot-No. **322451**

Quantity: 3 000 kg

Production Date: 12.08.2023

Retest Date: 12.08.2026

Manufacturer: Alzchem Trostberg GmbH, Trostberg, Germany

Country of Origin: Germany

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Parameter	Method	Unit	Specification	Results
Assay ¹ (HPLC)	107-138/1	[%]	≥ 99.9	100.6
Creatinine (HPLC)	107-138/1	[mg/kg]	≤ 100	24
Dicyandiamide (HPLC)	107-138/1	[mg/kg]	≤ 50	23
Dihydrotriazine (HPLC)	107-138/1	[mg/kg]	< 3	< 3 (=LOD)

¹ Calculated as creatine monohydrate; creatine monohydrate theoretically contains 12.1 % water of crystallization.

LOD = Limit of Detection

Office Germany: Alzchem Trostberg GmbH, Dr.-Albert-Frank-Straße 32, 83308 Trostberg
Phone +49 8621/86-0, Fax +49 8621/86-2911

Office USA: Alzchem LLC, 11390 Old Roswell Road, Suite 124, Alpharetta, GA 30009, USA
Phone 770-804-0371, Fax 770-804-0375

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Periodic controls

Microbiology

Parameter	Method ²	Unit	Specification	Results
Moulds and yeasts	Ph.Eur. 2.6.12	[cfu/g]	≤ 50	< 10
Total aerobic plate counts	Ph.Eur. 2.6.12	[cfu/g]	≤ 1000	< 10
Coliform bacteria	Ph.Eur. 2.6.13	[neg/g]	neg/g	neg/g
E. coli	Ph.Eur. 2.6.13	[neg/g]	neg/g	neg/g
Salmonella sp.	Ph.Eur. 2.6.13	[neg/25 g]	neg/25 g	neg/25 g
Staphylococcus aureus	Ph.Eur. 2.6.13	[neg/g]	neg/g	neg/g

Heavy Metals

Parameter	Method	Unit	Specification	Results
Mercury	107-022/1	[mg/kg]	≤ 0.10	< 0.011
Cadmium	107-022/2	[mg/kg]	≤ 0.1	< 0.003
Lead	107-022/2	[mg/kg]	≤ 0.1	< 0.03
Arsenic	107-022/1	[mg/kg]	≤ 0.1	< 0.005

² Ph. Eur. methods harmonised with USP methods

The results based on our measures for quality assurance are in accordance with our specification.
For further questions regarding the mentioned figures please fax to +49-8621-86-2860.

Alzchem Trostberg GmbH
Analytical Department



Office Germany: Alzchem Trostberg GmbH, Dr.-Albert-Frank-Straße 32, 83308 Trostberg
Phone +49 8621/86-0, Fax +49 8621/86-2911

Office USA: Alzchem LLC, 11390 Old Roswell Road, Suite 124, Alpharetta, GA 30009, USA
Phone 770-804-0371, Fax 770-804-0375

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