



AlzChem AG - Postfach 12 62 - 83303 Trostberg - Germany

AlzChem Order No.: 32143863

Date: 2015-09-08

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Certificate of Analysis

Customer:

Consignee:

Customer Order No.: 2015-02-001162

Product: **Creapure® (ultrapure creatine monohydrate)**

Lot-No. **521641**

Quantity: 1 000 kg

Production Date: 04.08.2015

Retest Date: 04.08.2018

Manufacturer: AlzChem AG, Trostberg, Germany

Country of Origin: Germany

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Parameter	Method	Unit	Specification	Results
Assay ¹ (HPLC)	107-138/1	[%]	≥ 99.9	102.6
Creatinine (HPLC)	107-138/1	[mg/kg]	≤ 100	39
Dicyandiamide (HPLC)	107-138/1	[mg/kg]	≤ 50	21
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

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Regular controlsMicrobiology

Parameter	Method ³	Unit	Specification	Results
Moulds and yeasts	Ph.Eur. 2.6.12 B	[cfu/g]	≤ 50	< 10
Total aerobic plate counts	Ph.Eur. 2.6.12 B	[cfu/g]	≤ 1000	< 10
Coliform bacteria	Ph.Eur. 2.6.12 B	[neg/g]	neg/g	neg/g
E. coli	Ph.Eur. 2.6.13 B	[neg/g]	neg/g	neg/g
Salmonella sp.	Ph.Eur. 2.6.13 B	[neg/25 g]	neg/25 g	neg/25 g
Staphylococcus aureus	Ph.Eur. 2.6.13 B	[neg/g]	neg/g	neg/g

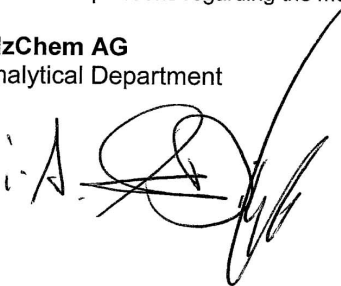
Heavy Metals

Parameter	Method	Unit	Specification	Results
Mercury	107-022/1	[mg/kg]	≤ 0.10	< 0.011 ²
Cadmium	107-022/2	[mg/kg]	≤ 0.1	< 0.001 ²
Lead	107-022/2	[mg/kg]	≤ 0.1	< 0.014 ²
Arsenic	107-022/1	[mg/kg]	≤ 0.1	< 0.002 ²

² Limit of Detection, ³ 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.

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Analytical Department



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