

Alzchem Order No.: 32306189

Date: 27.08.2025

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Certificate of Analysis

Customer: Alzchem LLC, MARIETTA, GA 30067, USA
 Consignee: Alzchem LLC for Cary Company, ADDISON, IL IL 60101, USA
 Customer Order No.: 3100102548
 Product: **Creavitalis® (Creatine Monohydrate)**
 Lot-No. **512541V**
 Quantity: 4 000 kg
 Production Date: 27.06.2025
 Retest Date: 27.06.2027
 Manufacturer: Alzchem Trostberg GmbH, Trostberg, Germany
 Country of Origin: Germany

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Typical chemical – physical properties: Fine white powder, odorless, flavorless

Parameter	Method	Unit	Specification	Results
Assay ¹ (HPLC)	107-138/1	[%]	≥ 99.9	100.7
Creatinine (HPLC)	107-138/1	[mg/kg]	≤ 100	48
Dicyandiamide (HPLC)	107-138/1	[mg/kg]	≤ 50	19
Dihydrotriazine (HPLC)	107-138/1	[mg/kg]	< 3	<3
Loss on drying	107-002/2	[%]	10.5 – 12.4	11.3

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

LOD = Limit of Detection

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

[Signature]

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Additional information about periodic controls of Creavitalis®

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
Salmonella sp.	§ 64 LFGB L 00.00-20	[neg/375 g]	---	neg/375 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