

Alzchem Order No.: 32294233

Date: 2024-09-18
Page 1 of 2

Certificate of Analysis

Customer: HSH Chemie Sp. z.o.o.
 Consignee: RABEN Logistics Polska Sp.z o.o. ul. Logistyczna 25/27
 05-825 CHLEBNIA K. GRODZISKA MAZ. POLEN
 Customer Order No.: ZZ 729/2024/04
 Product: **Creapure® (Creatine Monohydrate)**
 Lot-No. **423752**
 Quantity: 2000 kg
 Production Date: 24.08.2024
 Retest Date: 24.08.2027
 Manufacturer: Alzchem Trostberg GmbH, Trostberg, Germany
 Country of Origin: Germany

This document is intended only for the use of the above mentioned addresses. It is confidential and may contain legally privileged information. Unauthorized reading, copying, disclosure or use is prohibited. If you received this document through an error, please destroy your copy and inform us immediately

Parameter	Method	Unit	Specification	Results
Assay ¹ (HPLC)	107-138/1	[%]	≥ 99.9	100.6
Creatinine (HPLC)	107-138/1	[mg/kg]	≤ 100	43
Dicyandiamide (HPLC)	107-138/1	[mg/kg]	≤ 50	20
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

This information and all further technical advice are based on Alzchem's present knowledge and experience. However, Alzchem assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, Alzchem disclaims all CONDITIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OF MERCHANTABILITY. ALZCHEM SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. Alzchem reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.

Alzchem Order No.: 32294233

Date: 2024-09-18

Page 2 of 2

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

This information and all further technical advice are based on Alzchem's present knowledge and experience. However, Alzchem assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, Alzchem disclaims all CONDITIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OF MERCHANTABILITY. ALZCHEM SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. Alzchem reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.

Product information / Informacje o produkcie	
<i>Name / Nazwa</i>	Creapure
<i>Batch / Partia</i>	423752
<i>Production date / Data produkcji</i>	2024-08-24
<i>Expiration date / Data wa no ci</i>	2027-08-24
<i>Shelf life / Okres przydatno ci</i>	3 years
<i>Document / Dokument</i>	ZZ-729/2024/04

Julia Jaworowska

Reviewed by / Sprawdzone przez