

## CERTIFICATE OF ANALYSIS

Material No: 704214  
 Name: Caffeine anhyd fPwD 50kg

Lot No: 17122081

Manufacturing date: 27-Mar-2017  
 Retest date: 26-Mar-2022  
 Actual specification: 734-23

Test Parameter	Specification	Dimension	Result
<u>Characters</u>			
Appearance	White powder		complies
<u>Identification</u>			
Identification	Must comply		complies
<u>Identity (Raman)</u>			
Identity (Raman)	Must comply		complies
<u>Melting range</u>			
Beginning of melting	min. 235	°C	237
End of melting	max. 239	°C	238
<u>Appearance of solution</u>			
Opalescence	Clear		complies
Colour	Colourless		complies
<u>Acidity</u>			
Acidity	Must comply		complies
<u>Sulfate</u>			
Sulfate	Max. 240 ppm		complies
<u>Heavy metals</u>			
Heavy metals, calc. as lead	Max. 10 ppm		complies
<u>Loss on drying</u>			
Loss on drying	max. 0.5	%	< 0.1
<u>Residue on ignition</u>			
Residue on ignition	Max. 0.1%		complies
<u>Related substances (HPLC)</u>			
Impurities	Max. 0.10 % each	%	complies
Sum of all impurities	max. 0.10	%	< 0.05
<u>Content</u>			
Content (HPLC)	98.5 - 101.0	% in dry sub	100.0
<u>Content (potentiometric)</u>			
Content	99.5 - 100.5	% in dry sub	100.0

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Test Parameter	Specification	Dimension	Result
<u>Residual solvents</u>			
Residual solvents	Must comply		complies
Chloroform	Max. 60 ppm		complies
<u>Particle size (handsieving)</u>			
Below 0.150 mm (No.100)	min. 97	%	100

Release comment: Identification may be guaranteed by other means/methods (General Notices of Ph.Eur., USP)  
 Sulfates, Heavy metals, Sulphated ash and Residual solvents are not routinely tested.

**Result:**

Caffeine anhydrous fine powder meets the test requirements stipulated in the current version of the following monograph(s): "Caffeine" of Ph.Eur., USP JP and IP.

Caffeine anhydrous fine powder is manufactured according to current GMP requirements.

Released on: **06-Apr-2017**  
 Manufacturer: Siegfried PharmaChemikalien Minden GmbH  
 Karlstr. 15  
 32423 Minden  
 Germany

Site Quality Manager: Dr. Wenzel

This certificate of analysis has been signed electronically.

It has been created automatically by the validated Siegfried Laboratory Information Management System (LIMS).



# HFCE

المجلس الأوروبي للأغذية الحلال Halal Food Council of Europe

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Registration No: 827964482

## HALAL CERTIFICATE شهادة حلال

المجلس الأوروبي للأغذية الحلال يشهد بأن المنتجات المذكورة أدناه قد إستوفت شروط الحلال وفقاً للشريعة الإسلامية

The Halal Food Council of Europe hereby certifies that the products listed below have met the Halal requirements in accordance with Islamic laws.

Date: February 28, 2018

Document #: 10491.10492.IH180003

Company Name & Address: Siegfried PharmaChemikalien Minden GmbH Kalstrasse 15, Minden, NRW 32423 Germany

Plant Name & Address: Siegfried PharmaChemikalien Minden GmbH Kalstrasse 15, Minden, NRW 32423 Germany

Product Name	Product Code	Halal-ID	Product Certificate #
1. Caffeine Anhydrous	-	A77531	HC-18SIH196
2. Caffeine Hydrous	-	B42610	HC-18SIGW97

  
Iqbal Ahmed Qureshi  
Director & Halal Administrator



This certificate is valid until **February 28, 2019** and subject to renewal at that time.



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