



Certificate of Analysis

Creation date 30.10.2018		Your order no. / Date 021965 / 12.10.2018		Delivery note / Date of dispatch 80722258 000010 / 30.10.2018
Our reference / Date 675036 000010 / 12.10.2018		Client number		Date of arrival 05.11.2018
Material / Product / Description 100185 / / Citric Acid Monohydrate CAM F6000 in 25 kg bags				Country of origin: AT
Shipping point Jungbunzlauer Austria AG Factory Pernhofen 2064 Wulzeshofen				
Batch 1238277	Quantity 1.000 KG	Date of production 13.10.2018	Date of expiry 10.2021	Production plant Pernhofen/Wulzeshofen AT

Parameter	Unit	Specification	Value
Characteristics			conforms
colourless crystals or a white, crystalline powder; efflorescent in dry air, very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether			conforms
Odour			typical, practically odourless
Identification			conforms*
Appearance of solution			conforms*
clear and colourless			
Clarity of solution			conforms*
Colour of solution			conforms*
Assay	%	99,7 - 100,3	99,9
Water	%	7,5 - 8,8	8,5
Readily carbonisable substances			conforms*
Calcium	mg/kg	<= 30	conforms*
Heavy metals	mg/kg	<= 5	conforms*
Iron	mg/kg	<= 3	conforms*
Arsenic	mg/kg	<= 1	conforms*
Lead	mg/kg	<= 0,5	conforms*
Mercury	mg/kg	<= 0,5	conforms*
Chloride	mg/kg	<= 5	conforms*
Oxalic acid / oxalate	mg/kg	<= 100	conforms*
Sulphate	mg/kg	<= 100	conforms*
Residue on ignition	%	<= 0,05	conforms*
Sulphated ash	%	<= 0,05	conforms*
Particles > 0.63 mm (mesh 25)	%	<= 10	conforms*
Particles < 0.20 mm (mesh 100) %	<= 10	conforms*	

We herewith confirm that this product meets the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.), the United States Pharmacopeia (USP), the Food Chemicals Codex (FCC) and of Commission Regulation (EU) No 231/2012. All analytical methods are in accordance with the latest requirements of the Ph. Eur., the USP, the FCC or are equivalent. Test methods are available on request.

*) analysis is confirmed based on In-Process-Control or by random testing.

- Certificate Expiry on Aug. 27th, 2020
- Certificate Expiry on July 31st, 2020

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ISO 9001:2015 certified by Lloyd's RQA - Certificate No. VNA200628/A - Certificate Expiry on July 8th, 2020
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Our reference / Date 675036 000010 / 12.10.2018		Client number		Date of arrival 05.11.2018
Material / Product / Description 100185 / / Citric Acid Monohydrate CAM F6000 in 25 kg bags				Country of origin: AT
Shipping point Jungbunzlauer Austria AG Factory Pernhofen 2064 Wulzeshofen				
Batch 1238278	Quantity 4.000 KG	Date of production 16.10.2018	Date of expiry 10.2021	Production plant Pernhofen/Wulzeshofen AT

Parameter	Unit	Specification	Value
Characteristics			conforms
colourless crystals or a white, crystalline powder; efflorescent in dry air, very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether			conforms
Odour			typical, practically odourless
Identification			conforms*
Appearance of solution			conforms*
clear and colourless			
Clarity of solution			conforms*
Colour of solution			conforms*
Assay	%	99,7 - 100,3	100,0
Water	%	7,5 - 8,8	8,5
Readily carbonisable substances			conforms*
Calcium	mg/kg	<= 30	conforms*
Heavy metals	mg/kg	<= 5	conforms*
Iron	mg/kg	<= 3	conforms*
Arsenic	mg/kg	<= 1	conforms*
Lead	mg/kg	<= 0,5	conforms*
Mercury	mg/kg	<= 0,5	conforms*
Chloride	mg/kg	<= 5	conforms*
Oxalic acid / oxalate	mg/kg	<= 100	conforms*
Sulphate	mg/kg	<= 100	conforms*
Residue on ignition	%	<= 0,05	conforms*
Sulphated ash	%	<= 0,05	conforms*
Particles > 0.63 mm (mesh 25)	%	<= 10	conforms*
Particles < 0.20 mm (mesh 100) %	<= 10	conforms*	

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