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Jungbunzlauer

Certificate of Analysis

Creation date	Your order no. / Date	Delivery note / Date of dispatch
10.08.2016	Email Paolo Carini / 25.07.2016	80586595 000030 / 10.08.2016
Our reference / Date	Client number	Date of arrival
548582 000030 / 26.07.2016	200762	12.08.2016
Material / Product / Description	Country of origin: AT	
100050 / / Citric Acid Anhydrous fine F6000 in 25 kg bags		
Shipping point	Jungbunzlauer Austria AG Factory Pernhofen 2064 Wulzeshofen	
Batch	Quantity	Date of production
1208949	6.000 KG	06.08.2016
		Date of expiry
		08.2019
		Production plant
		Pernhofen/Wulzeshofen AT

Parameter	Unit	Specification	Value
Characteristics			conforms
colourless crystals or a white or almost white, crystalline powder; very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether; has a strongly acid taste			
Odour			conforms
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
Water	%		<= 0,50
Readily carbonisable substances			conforms*
Calcium	mg/kg		<= 30
Heavy metals	mg/kg		<= 5
Iron	mg/kg		<= 3
Arsenic	mg/kg		<= 1
Lead	mg/kg		<= 0,5
Mercury	mg/kg		<= 0,5
Chloride	mg/kg		<= 5
Oxalic acid/Oxalate	mg/kg		<= 100
Sulphate	mg/kg		<= 100
Residue on ignition	%		<= 0,05
Sulphated ash	%		<= 0,05
Particles > mesh 25 (0.71 mm)	%		<= 10
Particles > 0.63 mm	%		<= 10
Particles < 0.20 mm	%		<= 10
Particles < mesh 100 (0.150 mm)	%		<= 10

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.

QUALITY CONTROL MANAGER
MSc. Carina Pleil

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