

Gracefruit Limited
 209 Glasgow Road
 Longcroft
 Bonnybridge
 FK4 1QQ

Certificate of Analysis

Date format	DD.MM.YYYY
Creation date	06.12.2019
Your order no.	028824
Date	20.11.2019
Delivery note	80789670 000030
Date of dispatch	06.12.2019
Our reference	737269 000030
Date	20.11.2019
Client number	217030
Date of arrival	09.12.2019

Material / Product / Description

100016 / / Citric Acid Anhydrous CAA N1560 in 25 kg bags

Shipping point

Batch	Quantity	Date of production	Date of expiry	Production plant, country	Country of Origin
1252754	3,000 KG	14.11.2019	11.2022	Pernhofen, AT	AT
Parameter	Unit	Specification	Value		
Characteristics	colourless crystals or a white, crystalline powder; very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether			conforms	
Odour	typical, practically odourless			conforms	
Identification				conforms*	
Appearance of solution	clear and colourless			conforms*	
Clarity of solution				conforms*	
Colour of solution				conforms*	
Assay	%	99.7 - 100.3	99.9		
Water	%	<= 0.50	0.05		
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 > 1.25 mm (mesh 14)	%	<= 5	conforms*		
Particles < 0.40 mm (mesh 45)	%	<= 10	conforms*		

We herewith confirm that this product is specified to meet 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.