Gracefruit Limited
209 Glasgow Road

Bonnybridge
FK4 1QQ

Citric Acid

Certificate of Analysis

Creation date	Your order no. / Date	Delivery note / Date of dispatch
24.05.2017	009648 / 12.05.2017	80633155 000030 / 24.05.2017
Our reference / Date	**Client number**	**Date of arrival**
592596 000030 / 12.05.2017	217030	01.06.2017

Material / Product / Description
100017 / / Citric Acid Anhydrous CAA N1560 in 25 kg bags

Country of origin: AT

Shipping point
Jungbunzlauer Austria AG Factory Pernhofen 2064 Wulzeshofen

Batch	Quantity	Date of production	Date of expiry	Production plant
1219182	5,000 KG	18.05.2017	05.2020	Pernhofen/Wulzeshofen AT

Parameter	Unit	Specification	Value
Characteristics			conforms
Colourless crystals or a white, crystalline powder; very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether			
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	100.0
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 > mesh 14 (1.4 mm)	%	<= 5.0	conforms*
Particles > 1.25 mm	%	<= 5	conforms*
Particles < 0.40 mm	%	<= 10	conforms*
Particles < mesh 45 (0.355 mm)	%	<= 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.