

Gracefruit Limited
209 Glasgow Road
Longcroft
Bonnybridge
FK4 1QQ

Certificate of Analysis

Date format	DD.MM.YYYY
Creation date	30.01.2020
Your order no.	029659
Date	16.01.2020
Delivery note	80798226 000010
Date of dispatch	30.01.2020
Our reference	745662 000010
Date	16.01.2020
Client number	217030
Date of arrival	04.02.2020

Material / Product / Description

100016 / CITANH1560.04 / 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
1254949	4,000 KG	16.01.2020	01.2023	Pernhofen, AT	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	99.8
Water	%	<= 0.50	0.06
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.

QUALITY CONTROL MANAGER