

Gracefruit Ltd  
209 Glasgow Road  
Longcroft  
Bonnybridge  
FK4 1QQ

## Glucono Delta Lactone

### Certificate of Analysis

Creation date 13.12.2016	Your order no. / Date 005915 / 01.12.2016	Delivery note / Date of dispatch 80605300 000010 / 13.12.2016
Our reference / Date 566713 000010 / 01.12.2016	Client number 217030	Date of arrival 16.12.2016
Material / Product / Description 113547 / / Glucono-delta-Lactone fine granular F5010 in 25 kg bags		Country of origin: FR

Batch 5113872	Quantity 1,000 KG	Date of production 10.11.2016	Date of expiry 11.2019	Production plant Marckolsheim, France
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We herewith confirm that this product meets the requirements of the latest edition of the United States Pharmacopoeia (USP), the Food Chemicals Codex (FCC) and the Commission Regulation (EU) N° 231/2012. All analytical methods are in accordance with the latest requirements of the USP, the FCC or equivalent methods. Test methods are available on request.

Parameter	Unit	Specification	Value
Characteristics			conforms
Identification			conforms
Lead (< 1 mg/kg)			conforms*
Heavy Metals (as Pb, < 10 mg/kg)			conforms*
Chloride	mg/kg	<= 50	conforms*
Sodium	mg/kg	<= 30	conforms*
Ash (< 0.10 %)			conforms*
Reducing Substances	%	<= 0.5	conforms*
Assay	%	99.0 - 100.5	100.1
Melting point	°C	150 - 154	conforms*
Water content	%	<= 0.15	conforms*

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