

## Certificate of Analysis

Gracefruit Limited  
209 Glasgow Road  
Longcroft  
Bonnybridge  
FK4 1QQ

01324 841353

Material / Product / Description

136940 / / Sodium-L(+)-lactate 60%

Shipping point

Batch	Quantity	Date of production	Date of expiry	Production plant, country	Country of Origin
5128740	2,160 KG	13.06.2020	06.2023	Marckolsheim, FR	FR

We herewith confirm that this product meets the requirements of Commission Regulation (EU) No 231/2012, the latest edition of the Food Chemical Codex (FCC), the European Pharmacopoeia (Ph. Eur.) and the United States Pharmacopoeia (USP). All analytical methods are in accordance with the latest requirements of the FCC, the Ph. Eur. and the USP or equivalent methods. Test methods are available on request.

Parameter	Unit	Specification	Value
Assay	%	59.0 - 61.0	60.9
Stereochemical purity (L-isomer)	%	>= 97	conforms*
Colour (fresh)	APHA	<= 20	5
Identification			conforms
Density (20°C)	g/cm3	1.32 - 1.34	1.33
pH value (20% solution)		6.5 - 7.5	7.3
Acidity (as lactic acid)	%	<= 0.3	conforms*
Chloride	mg/kg	<= 50	conforms*
Sulphate	mg/kg	<= 20	conforms*
Cyanide	mg/kg	<= 0.3	conforms*
Iron	mg/kg	<= 5	conforms*
Arsenic	mg/kg	<= 1	conforms*
Lead (Pb)	mg/kg	<= 2	conforms*
Barium			conforms*
Mercury	mg/kg	<= 1	conforms*
Heavy Metals (as Pb)	mg/kg	<= 5	conforms*
Calcium	mg/kg	<= 20	conforms*
Methanol and methyl esters	mg/kg	<= 50	conforms*
Citrate, oxalate, phosphate, tartrate			conforms*
Reducing sugars			conforms*