

Certificate of Analysis

Gracefruit Limited
209 Glasgow Road
Longcroft
Bonnybridge
FK4 1QQ

Material / Product / Description

131515 / / Sodium-L(+)-lactate 60% food grade in 270 kg drums

Shipping point

Jungbunzlauer S.A., Z.I. Et Portuaire - B.P. 32, 67390 Marckolsheim

Batch	Quantity	Date of production	Date of expiry	Production plant, country	Country of Origin
5127974	1,080 KG	20.04.2020	04.2023	Marckolsheim, FR	FR

We herewith confirm that this product is specified to meet the requirements of the latest edition of 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 FCC or are equivalent. Test methods are available on request.

Parameter	Unit	Specification	Value
Assay	%	59.0 - 61.0	59.4
Stereochemical purity (L-isomer)	%	>= 97	conforms*
Sodium content	%	12.1 - 12.6	conforms*
Colour (fresh)	APHA	<= 50	18
Identification			conforms
Density (20°C)	g/cm3	1.32 - 1.34	1.32
Acidity (as lactic acid)	%	<= 0.3	conforms*
pH value (20% solution)		6.5 - 7.5	7.3
pH (direct)		6.5 - 8.5	8.3
Sulphate	mg/kg	<= 20	conforms*
Chloride	mg/kg	<= 50	conforms*
Cyanide	mg/kg	<= 0.3	conforms*
Iron	mg/kg	<= 10	conforms*
Arsenic	mg/kg	<= 1	conforms*
Lead (Pb)	mg/kg	<= 2	conforms*
Mercury	mg/kg	<= 1	conforms*
Heavy Metals (as Pb)	mg/kg	<= 5	conforms*
Methanol and methyl esters	mg/kg	<= 50	conforms*
Citrate, oxalate, phosphate, tartrate			conforms*
Reducing sugars			conforms*