

Certificate of Analysis

Date format	DD.MM.YYYY
Creation date	22.06.2020
Your order no.	18665
Date	09.04.2020
Delivery note	80826385 000010
Date of dispatch	22.06.2020
Our reference	763217 000010
Date	09.04.2020
Client number	214364
Date of arrival	23.06.2020

Material / Product / Description

135614 / SA08313 / L(+)-lactic acid 80% food grade in 25 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
5128662	6.400 KG	05.06.2020	06.2023	Marckolsheim, FR	FR

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

Parameter	Unit	Specification	Value
Assay	%	79,5 - 80,5	80,1
Stereochemical purity (L-isomer)	%	>= 97	conforms*
Colour (fresh)	APHA	<= 50	8
Colour (6 months, 25°C)	APHA	<= 50	conforms*
Identification			conforms
Density (20°C)	g/cm3	1,18 - 1,20	1,19
Sulfated ash	%	<= 0,1	conforms*
Chloride	mg/kg	<= 20	conforms*
Sulphate	mg/kg	<= 20	conforms*
Cyanide	mg/kg	<= 5	conforms*
Iron	mg/kg	<= 10	conforms*
Arsenic	mg/kg	<= 1	conforms*
Lead (Pb)	mg/kg	<= 0,5	conforms*
Mercury	mg/kg	<= 1	conforms*
Heavy Metals (as Pb)	mg/kg	<= 10	conforms*
Calcium	mg/kg	<= 20	conforms*
Citric oxalic phosphoric tartaric acid			conforms*
Readily carbonisable substances			conforms*
Reducing sugars			conforms*

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

This computer generated certificate is valid without signature.

Quality Control Manager

Isabelle HABY