

Certificate of Analysis

Date format	YYYY.MM.DD
Creation date	2025.09.03
Your order no.	4500902637
Date	2025.08.13
Delivery note	81176349 000010
Date of dispatch	2025.09.03
Our reference	1069270 000010
Date	2025.08.13
Client number	210152
Date of arrival	2025.09.05

Material / Product / Description

135614 / 2012573 / 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
5153823	800 KG	2025.08.07	2028.08	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	%	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	<= 100	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*
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