



20 JUL 2021
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VAT. NR. NL0032.53.235B01

CERTIFICATE OF ANALYSIS

Material No. 1001010057
Brand Name PURAC® FCC 80
Product Name L(+) - Lactic Acid FCC Special
80
Batch No. 7500056104
Manufacturing Date 09-Jun-2021
Expiry Date 08-Jun-2026

Characteristic	Unit	Lower Limit	Upper Limit	Value
Color fresh	APHA		50	17
Assay	%(w/w)	79.5	80.5	80.0

Parameters not tested in all batches but validated through in-process or final testing.

Characteristic	Unit	Lower Limit	Upper Limit
Color tone		Colorless or yellowish	
Odor		Agreeable	
Stereochemical purity (S)- enantiomer	%	97	
Sulfated ash	%(w/w)		0.10
Density (20°C)	g/ml	1.18	1.20
Heavy metals	mg/kg		10
Iron	mg/kg		10
Mercury	mg/kg		1
Lead	mg/kg		0.5
Arsenic	mg/kg		1
Calcium	mg/kg		20
Chloride	mg/kg		10
Sulfate	mg/kg		20
Cyanide	mg/kg		1
Positive test for acid		Passes test	
Positive test for lactate		Passes test	
Citrate, Oxalate, Phosphate, Tartrate		Passes test	
Reducing sugars		Passes test	
Sugars		Passes test	
Volatile fatty acids		Passes test	



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Characteristic	Unit	Lower Limit	Upper Limit
Clarity of solution		Clear	
Methanol	%(w/w)		0.2
Ether insolubles	%(w/w)		0.7
Readily carbonizable substances		Passes test	
Form		Syrupy liquid	
Solubility		Soluble in water and ethanol	

The results reported above are the mean value of the last 2 in process checks made in the time frame that this lot was manufactured

This batch complies with the current version of FCC, JSFA, 231/2012/EC, JECFA

This document is generated by a validated system and therefore not signed.

Pieter Bierlaagh
Manager Quality Control

SAP BATCH: BE01112416
VENDOR BATCH:20210803