

16140694



Corbion

Purac America Inc
8250 Flint Street
Lenexa, KS 66214
United States of America

P +1 800 669 4092
F +1 913 888 4970

pam@corblon.com
www.corblon.com

CERTIFICATE OF ANALYSIS

Order nr	1474206	Cust order Ref	4525984031
Product	PURASAL [®] S Sodium -(L)-lactate(60%)		
Lot No	2212000779		
Manufacturing Date	21-Dec-2022	Retest Date	20-Dec-2024

Test	Units	Specification	Results
Color fresh	APHA	<=25	11
Assay	% (w/w)	58.8 - 61.2	60.2
Assay sodium	% (w/w)	12.1 - 12.6	12.4
Density (20°C)	g/mL	1.32 - 1.34	1.32
pH (direct)		6.5 - 8.5	8.1
pH 10%(16.7g product + 83.3g water)		6.0 - 7.5	7.2
Odor		Passes test	Passes test
Clarity of solution		Clear	Clear

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

Test	Units	Specification
Positive test for sodium		Passes test
Positive test for lactate		Passes test
Stereochemical purity L-isomer	%	>=95
Cyanide	mg/kg	<=0.3
Lead	ppm	<=2
Citrate, oxalate, phosphate, tartrate		Passes test
Sugars		Passes test
Methanol/Methylesters (as Methanol)	% (w/w)	<=0.025
Chloride	% (w/w)	<=0.03
Sulfate	% (w/w)	<=0.003
Color reaction with catechol		Passes test
Test after ignition		Passes test

This lot complies with: Current FCC

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

Amy Stephenson
QA/QC Manager