

CERTIFICATE OF ANALYSIS

Product : PURAC FCC 88 L(+) Lactic Acid FCC 88
 Manufacture Date : 03/04/2023
 Retest Date : 03/02/2028
 Lot No. : 2303000168

Ingredient Supplier, LLC. certifies this Statement of Analysis is true and correct.

TEST, UNITS	SPECIFICATIONS	RESULTS
Color Fresh, APHA	< = 50	18.00
Assay Lactic Acid, %(w/w)	87.50-88.50	88.50
Density (20°C), g/mL	1.20-1.22	1.2
Form	Liquid	Liquid

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

TEST, UNITS	SPECIFICATIONS
L(+) content (S), %	> = 97
Sulfated Ash, %(w/w)	< = 0.1
Positive Test For Lactate	Passes Test
Positive Test For Acid	Passes Test
Ether Insolubles, %(w/w)	< = 0.7
Solubility	Soluble in Water and Ethanol
Calcium, ppm	< = 20
Heavy Metals, mg/kg	< = 10
Iron, ppm	< = 10
Lead, ppm	< = 0.5
Cyanide, mg/kg	< = 1
Mercury, ppm	< = 1
Methanol/Methylesters, %(w/w)	< = 0.20
Readily Carbonizable Substances	Passes Test
Chloride, ppm	< = 10
Sulfate, ppm	< = 20

Signed by Chris Hill
 Quality