Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs

5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146

www.gojirafc.com ● sales@gojirafc.com

Certificate of Analysis

L-Carnitine Base USP

Catalog Number: CA1010
Lot Number: 0922504r4
CAS Number: 541-15-1
Synonym(s): (−)-(*R*)-3-Hydroxy-4-(trimethylammonio)butyrate, Vitamin B
Molecular Formula: $C_7H_{15}NO_3$
Molecular Weight: 161.20
Storage: 15°C – 30°C
Date of Manufacture: September 27, 2013
Original Retest Date: September 26, 2015
Current Retest Date: September 25, 2019

Test	Specification	Result
Appearance	White crystals	Conforms
Assay (on dried basis)	97.0% to 103.0%	99.16%
Identification (FTIR)	To match reference spectra	Conforms
Specific rotation	-32.00 to -29.00°	-31.09°
Moisture (LOD)	≤ 1.0%	0.24%
pH	5.5 – 9.5	7.0
Residue on ignition	≤ 0.50%	< 0.15%
Chloride	≤ 0.40%	< 0.40%
Potassium	≤ 0.20%	< 0.2%
Sodium	≤ 0.10%	< 0.1%
Cyanide	Negative	Conforms
Heavy Metals	≤ 10.0ppm	< 10.0ppm
Arsenic	≤ 1.00ppm	< 1.00ppm
Cadmium	≤ 1.00ppm	< 1.00ppm
Lead	≤ 3.00ppm	< 1.00ppm
Mercury	≤ 1.00ppm	< 1.00ppm
Total Plate Count	≤ 1,000cfu/g	< 500cfu/g
Yeast & Mold	≤ 100cfu/g	< 100cfu/g
Coliforms	≤ 100cfu/g	< 100cfu/g
E. Coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus Aureus	Negative	Negative
Mesh size	30 – 100mesh	99.5% 30mesh 55% 60mesh
Bulk Density	0.30 – 0.70g/mL	0.56g/mL
Tap Density	0.50 – 0.80g/mL	0.64g/mL
This lot meets the specifications for USP35.		

Approved by: Date: January 5, 2018

For research purposes only. Not for drug or clinical use in humans or human food additive use.

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