

## **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

## **Specification**

## **L-Tyrosine USP**

Catalog Number: CAS Number: Synonym(s):

Molecular Formula: Molecular Weight: Storage: Retest Period: TS1002 60-18-4 (S)-2-Amino-3-(4-hydroxyphenyl)propionic acid, 3-(4-Hydroxyphenyl)-L-alanine  $C_9H_{11}NO_3$ 181.19 15°C – 30°C Two years from the date of manufacture

Test	Specification
Appearance	White powder
Purity (Titration) <sup>1</sup>	98.5 – 101.5%
Identification (FTIR) <sup>1</sup>	To match reference spectra
Specific Rotation <sup>1</sup>	-11.2° to -9.8°
Moisture (LOD) <sup>1</sup>	≤ 0.3%
Residue on Ignition <sup>1</sup>	≤ 0.4%
Chloride <sup>1</sup>	≤ 0.04%
Sulfate <sup>1</sup>	≤ 0.04%
Heavy Metals <sup>1</sup>	≤ 15ppm
Arsenic	≤ 1ppm
Cadmium	≤ 1ppm
Iron <sup>1</sup>	≤ 30ppm
Lead	≤ 1ppm
Mercury	≤ 0.1ppm
Related Compounds <sup>1</sup>	
Individual Impurities	≤ 0.5%
Total Impurities	≤ 2.0%
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Coliform	Negative/g
E. coli	Negative
Salmonella	Negative
S. aureus	Negative
Particle Size	≥ 98% thru 100mesh
Bulk Density	≥ 0.2mg/mL min
Tap Density	≥ 0.3mg/mL min
Lots meet the specifications for USP39.	

Approved:

Date: September 11, 2018



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