



Certificate of Analysis

N-Acetyl-L-Tyrosine EP/AJ1

Catalog Number: AT1005
Lot Number: 0319801
CAS Number: 537-55-3
Molecular Formula: $C_{11}H_{13}NO_4$
Molecular Weight: 223.23
Storage: 15°C – 30°C
Date of Manufacture: November 22, 2017
Retest Date: November 21, 2019

Test	Specification	Result
Appearance ¹	White crystals or powder	Conforms
Assay ^{1,2}	99.0 – 101.0%	99.9%
Identifications A: Specific Rotation ^{1,2} B: FTIR ¹ C: TLC ¹ D: Strongly Acidic ¹	+46.5° to +49.0° To match reference spectra To meet requirements To meet requirements	+47.1° Conforms Conforms Conforms
Solubility ¹	Freely soluble in water, practically insoluble in cyclohexane	Conforms
State of Solution ²	≥ 96.0%	98.5%
Appearance of Solution ¹	Clear and colorless	Conforms
pH ²	2.0 – 3.0	2.55
Moisture (LOD) ^{1,2}	≤ 0.5%	0.09%
Residue on Ignition (Ash) ^{1,2}	≤ 0.1%	0.05%
Impurities Tyrosine ^{1,2} Total ¹	≤ 0.8% ≤ 1.0%	0.76% 0.80%
Ammonium ^{1,2}	≤ 0.02%	< 0.02%
Chloride ^{1,2}	≤ 0.02%	< 0.02%
Sulfate ^{1,2}	≤ 0.02%	< 0.02%
Heavy Metals ²	≤ 10ppm	< 10ppm
Arsenic	≤ 1ppm	< 1ppm
Cadmium	≤ 1ppm	< 0.5ppm
Iron ^{1,2}	≤ 20ppm	< 20ppm
Lead	≤ 2ppm	< 0.2ppm
Mercury	≤ 0.1ppm	< 0.1ppm
Total Plate Count	≤ 1000cfu/g	< 1000cfu/g
Yeast & Mold	≤ 100cfu/g	< 100cfu/g
Coliforms	Negative	Negative

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



Gojira Fine Chemicals, LLC

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<i>E. coli</i>	Negative	Negative
<i>Salmonella</i>	Negative	Negative
Endotoxin ¹	≤ 25EU/g	< 25EU/g
This batch conforms to the specifications for EP9 ¹ and AJI92 ² .		

Approved by:

Date: March 23, 2018

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