



Specification

N-Acetyl-L-Tyrosine EP/AJI

| | |
|---------------------------|---|
| Catalog Number: | AT1005 |
| CAS Number: | 537-55-3 |
| Molecular Formula: | C ₁₁ H ₁₃ NO ₄ |
| Molecular Weight: | 223.23 |
| Storage: | 15°C – 30°C |
| Retest Period: | Two years from the date of manufacture |

| Test | Specification |
|--|--|
| Appearance ¹ | White crystals or powder |
| Assay ^{1,2} | 99.0 – 101.0% |
| Identifications A: Specific Rotation (c=2.5, H ₂ O) ^{1,2} B: FTIR ^{1,2} C: TLC ¹ D: Strongly Acidic ¹ | +46.5° to +49.0° To match reference spectra To meet requirements To meet requirements |
| Solubility ¹ | Freely soluble in water, practically insoluble in cyclohexane |
| State of Solution ² | ≥ 96.0% |
| Appearance of Solution ¹ | Clear and colorless |
| pH ^{1,2} | 2.0 – 3.0 |
| Moisture (LOD) ^{1,2} | ≤ 0.5% |
| Residue on Ignition (Ash) ^{1,2} | ≤ 0.1% |
| Impurities Tyrosine ^{1,2} Total ¹ | ≤ 0.8% ≤ 1.0% |
| Ammonium ^{1,2} | ≤ 0.02% |
| Chloride ^{1,2} | ≤ 0.02% |
| Sulfate ^{1,2} | ≤ 0.02% |
| Heavy Metals ² | ≤ 10ppm |
| Arsenic ² | ≤ 2ppm |
| Cadmium | ≤ 1ppm |
| Iron ^{1,2} | ≤ 20ppm |
| Lead | ≤ 2ppm |
| Mercury | ≤ 0.1ppm |
| Total Plate Count | ≤ 1000cfu/g |
| Yeast & Mold | ≤ 100cfu/g |
| Coliforms | Negative |
| <i>E. coli</i> | Negative |
| <i>Salmonella</i> | Negative |
| Endotoxin ^{1,2} | ≤ 25EU/g |



Gojira Fine Chemicals, LLC

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All lots conform to the specifications for EP9¹ and AJI92².

Approved:

Date: March 21, 2018

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