

Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs

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Certificate of Analysis

Ammonium Sulfate Enzyme Grade

Catalog Number: AS1005 Lot Number: 0818702 **CAS Number:** 7783-20-2 **Molecular Formula:** (NH₄)₂SO₄ **Molecular Weight:** 132.14 $15^{\circ}C - 30^{\circ}C$ Storage: **Date of Manufacture:** June 13, 2016 Retest Date: June 12, 2019

Test	Specification	Result
Appearance	Fine white crystals	Conforms
Assay	≥ 99.0%	99.4%
Identification		
A Reaction for Ammonium	To pass test	Conforms
B Reaction for Sulfate	To pass test	Conforms
Solubility (1g/1.5mL H ₂ O)	Clear & colorless	Conforms
pH (5%)	5.0 - 6.0	5.20
Absorbance (Sat'd Solution)		
260nm	≤ 0.1AU	0.006AU
280nm	≤ 0.1AU	0.007AU
Insoluble Matter	≤ 0.005%	0.0025%
Residue After Ignition	≤ 0.005%	0.0010%
Chloride	≤ 5ppm	< 5ppm
Nitrate	≤ 0.001%	< 0.001%
Phosphate	≤ 5ppm	< 5ppm
Calcium	≤ 0.5ppm	0.4ppm
Magnesium	≤ 0.1ppm	0.08ppm
Heavy Metals	≤ 0.5ppm	< 0.5ppm
Iron	≤ 0.5ppm	< 0.5ppm
Zinc	≤ 0.5ppm	0.3ppm

Approved by: ohn grubb

John Grubb, PhD

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Quality Manager

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

Date: August 18, 2017