

## Certificate of Analysis

Date of Testing: 2022-07-25 14:28:07  
Date of Next Testing: 2024-07-14 14:28:07  
Product Name: **Ammonium sulfate**  
CAS Number: 7783-20-2  
Specifications & Purity: for molecular biology,  $\geq 99.0\%$   
Lot #: G2221179  
SKU #: **A112103**  
**Analysis: 111308**

Parameter	Limit Values	Result
Iron(Fe)	0-5 (ppm)	3.62 ppm
Purity(Neutralization titration)	99-101 (%)	100.52 %
Chloride (Cl-)	0-5 (ppm)	4.12 ppm
Insoluble matter in H <sub>2</sub> O	0-0.005 (%)	0.00 %
Copper(Cu)	0-5 (ppm)	0.36 ppm
Zinc(Zn)	0-5 (ppm)	0.41 ppm
Heavy metal (as Pb)	0-2 (ppm)	0.13 ppm
UV Absorbance 280nm (1 M solution)	0-0.025	0.01
UV Absorbance 260nm(1 M solution)	0-0.03	0.02
Appearance (A112103)	White Powder, Crystals and/or Chunks	White Powder, Crystals and/or Chunks
DNase, RNase and Protease	None Detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , CLEAR ,2G/3ML WATER	pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager