

## Certificate of Analysis

Date of Testing:	2024-01-10 11:15:02
Date of Next Testing:	2025-12-30 11:15:02
Product Name:	<b>Ammonium ceric nitrate</b>
CAS Number:	16774-21-3
Specifications & Purity:	Analytical Reagent,99.0%
Lot #:	A2402386
SKU #	<b>A105050</b>
<b>Analysis:</b>	<b>313447</b>
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	0.30 ppm
Calcium(Ca)	0-10 (ppm)	4.00 ppm
Chromium(Cr)	0-5 (ppm)	0.50 ppm
Manganese(Mn)	0-5 (ppm)	0.25 ppm
Potassium(K)	0-10 (ppm)	0.75 ppm
Insoluble in dilute sulfuric acid	0-0.05 (%)	0.00 %
Zinc(Zn)	0-5 (ppm)	0.26 ppm
Chloride (Cl-)	0-10 (ppm)	0.85 ppm
Copper(Cu)	0-5 (ppm)	0.44 ppm
Magnesium(Mg)	0-20 (ppb)	15.00 ppb
Lead(Pb)	0-5 (ppm)	0.22 ppm
Ce By Titration with Dichromate	25-26.1 (%)	25.56 %
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-50 (ppm)	0.00 ppm
Phosphate(PO4)	0-200 (ppm)	175.00 ppm
Purity(redox titration)	98.5-101 (%)	100.00 %
Sodium(Na)	0-10 (ppm)	0.50 ppm
Appearance (A105050)	Light Orange to Very Dark Orange Powder or Crystal	Light Orange to Very Dark Orange Powder or Crystal
Solubility in H2O , Yellow clear solution(50 mg/mL)	pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

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

John Su  
QA & QC Manager