

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-05-27 15:55:56
Date of Next Testing:	2026-05-17 15:55:56
Product Name:	<b>Ammonium ceric nitrate</b>
CAS Number:	16774-21-3
Specifications & Purity:	Analytical Reagent,99.0%
Lot #:	E2422530
SKU #	<b>A105050</b>
Version	<b>0</b>
<b>Analysis #:</b>	<b>362096</b>
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	0.37 ppm
Calcium(Ca)	0-10 (ppm)	6.50 ppm
Chromium(Cr)	0-5 (ppm)	1.20 ppm
Manganese(Mn)	0-5 (ppm)	0.83 ppm
Potassium(K)	0-10 (ppm)	5.80 ppm
Insoluble in dilute sulfuric acid	0-0.05 (%)	0.00 %
Zinc(Zn)	0-5 (ppm)	0.71 ppm
Chloride (Cl-)	0-10 (ppm)	5.40 ppm
Copper(Cu)	0-5 (ppm)	2.90 ppm
Magnesium(Mg)	0-20 (ppb)	10.30 ppb
Lead(Pb)	0-5 (ppm)	0.17 ppm
Ce By Titration with Dichromate	25-26.1 (%)	25.07 %
Cadmium(Cd)	0-5 (ppm)	2.30 ppm
Nickel(Ni)	0-5 (ppm)	1.50 ppm
Iron(Fe)	0-50 (ppm)	25.06 ppm
Phosphate(PO4)	0-200 (ppm)	100.00 ppm
Purity(redox titration)	98.5-101 (%)	99.99 %
Sodium(Na)	0-10 (ppm)	7.30 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



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

John Su  
QA & QC Manager