

Certificate of Analysis

Date of Testing: 2023-10-13 14:19:44
 Date of Next Testing: 2025-10-02 14:19:44
 Product Name: **Ammonium ceric nitrate**
 CAS Number: 16774-21-3
 Specifications & Purity: Analytical Reagent,99.0%
 Lot #: I2328040
 SKU #: **A105050**
Analysis: **285595**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	3.50 ppm
Calcium(Ca)	0-10 (ppm)	8.20 ppm
Chromium(Cr)	0-5 (ppm)	2.80 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-10 (ppm)	0.00 ppm
Insoluble in dilute sulfuric acid	0-0.05 (%)	0.00 %
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Chloride (Cl-)	0-10 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-20 (ppb)	0.00 ppb
Lead(Pb)	0-5 (ppm)	0.00 ppm
Ce By Titration with Dichromate	25-26.1 (%)	25.23 %
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-50 (ppm)	25.80 ppm
Phosphate(PO4)	0-200 (ppm)	150.00 ppm
Purity(redox titration)	98.5-101 (%)	100.00 %
Sodium(Na)	0-10 (ppm)	6.30 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



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su
QA & QC Manager