

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-05-31 14:10:20
Date of Next Testing:	2025-05-31 14:10:20
Product Name:	Ammonium fluoride
CAS Number:	12125-01-8(Water)
Specifications & Purity:	40% solution , electronic grade
Lot #:	L2215864
SKU #	A111760
Version	1
Analysis #:	363226
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Color Test	0-10	3.00
Nickel(Ni)	0-10 (ppb)	0.00 ppb
Chloride (Cl-)	0-2 (ppm)	0.00 ppm
Manganese(Mn)	0-10 (ppb)	0.00 ppb
Calcium(Ca)	0-10 (ppb)	0.00 ppb
Potassium(K)	0-10 (ppb)	0.01 ppb
Magnesium(Mg)	0-10 (ppb)	0.00 ppb
Sodium(Na)	0-10 (ppb)	0.01 ppb
Lithium(Li)	0-10 (ppb)	0.01 ppb
Lead(Pb)	0-10 (ppb)	0.04 ppb
Iron(Fe)	0-10 (ppb)	0.09 ppb
Aluminum(Al)	0-10 (ppb)	0.01 ppb
Copper(Cu)	0-10 (ppb)	0.00 ppb
Chromium(Cr)	0-10 (ppb)	0.00 ppb
Assay	39-41 (%)	40.10%
Cobalt(Co)	0-10 (ppb)	0.01 ppb
Silver (Ag)	0-10 (ppb)	0.02 ppb
Phospate(PO4)	0-0.2 (ppm)	0.01 ppm
(NO3)Nitrate	0-3 (ppm)	0.01 ppm
Molybdenum(Mo)	0-10 (ppb)	0.00 ppb
PH(1% in Water,25°C)	6.5-7	6.50
Cadmium(Cd)	0-10 (ppb)	0.00 ppb
Sulfate(SO42-)	0-1 (ppm)	0.00 ppm
particle(≥0.5um)	0-100 (ea/ml)	0.00 ea/ml
Zinc(Zn)	0-10 (ppb)	3.00 ppb

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Parameter	Limit Values	Result
particle($\geq 1.0\mu\text{m}$)	0-25 (ea/ml)	0.90 ea/ml

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

John Su
QA & QC Manager