

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-06-23 09:52:37
 Date of Next Testing: 2023-06-23 09:52:37
 Product Name: **Ammonia solution**
 CAS Number: 1336-21-6
 Specifications & Purity: ≥28% NH₃ in H₂O, Electronic grade
 Lot #: F2217292
 SKU #: **A112083**
Analysis: **098640**
 Storage Temperature: Store at 2-8°C, Protected from light

Parameter	Limit Values	Result
Cadmium(Cd)	0-50 (ppb)	0.01 ppb
Calcium(Ca)	0-0.5 (ppm)	0.00 ppm
Assay(as NH ₃)	28-30 (%)	28.81 %
Germanium (Ge)	0-50 (ppb)	0.01 ppb
Magnesium(Mg)	0-50 (ppb)	0.16 ppb
Beryllium(Be)	0-50 (ppb)	0.01 ppb
Barium(Ba)	0-50 (ppb)	0.06 ppb
Stannum(Sn)	0-50 (ppb)	0.01 ppb
Gallium(Ga)	0-50 (ppb)	0.01 ppb
Sb	0-50 (ppb)	0.01 ppb
Aluminum(Al)	0-50 (ppb)	0.02 ppb
Copper(Cu)	0-40 (ppb)	0.01 ppb
Cobalt(Co)	0-50 (ppb)	0.01 ppb
Chromium(Cr)	0-50 (ppb)	0.01 ppb
Lithium(Li)	0-50 (ppb)	0.01 ppb
Titanium(Ti)	0-50 (ppb)	0.01 ppb
Ta	0-50 (ppb)	0.01 ppb
Zirconium(Zr)	0-50 (ppb)	0.01 ppb
Chloride (Cl-)	0-0.3 (ppm)	0.10 ppm
(NO ₃)Nitrate	0-0.4 (ppm)	0.00 ppm
Strontium(Sr)	0-50 (ppb)	0.01 ppb
Silver (Ag)	0-20 (ppb)	0.01 ppb
Niobium(Nb)	0-50 (ppb)	0.01 ppb
Sodium(Na)	0-50 (ppb)	0.20 ppb
Sulfate(SO ₄ ²⁻)	0-0.8 (ppm)	0.20 ppm
(Pb)Lead	0-25 (ppb)	0.01 ppb

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Potassium(K)	0-50 (ppb)	0.15 ppb
Manganese(Mn)	0-50 (ppb)	0.01 ppb
Bismuth(Bi)	0-50 (ppb)	0.01 ppb
(As)Arsenic	0-50 (ppb)	0.01 ppb
Molybdenum(Mo)	0-50 (ppb)	0.01 ppb
Zinc(Zn)	0-30 (ppb)	0.08 ppb
Phosphate(PO4)	0-0.2 (ppm)	0.20 ppm
Boron(B)	0-50 (ppb)	1.88 ppb
Vanadium(V)	0-50 (ppb)	0.01 ppb
Nickel(Ni)	0-20 (ppb)	0.04 ppb
Iron(Fe)	0-50 (ppb)	0.04 ppb
Aurum(Au)	0-50 (ppb)	0.07 ppb



John Su
QA & QC Manager