

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-27 14:01:37

Date of Next Testing: 2025-11-27 14:01:37

Product Name: **Ammonia solution**

CAS Number: 1336-21-6

Specifications & Purity: electronic grade,  $\geq 28\%$  NH<sub>3</sub> in H<sub>2</sub>O

Lot #: K2422229

SKU #: **A112083**

Version: **2**

Analysis #: **428693**

Storage Temperature: Store at 2-8°C, Protected from light

Parameter	Limit Values	Result
Cadmium(Cd)	0-50 (ppb)	0.00 ppb
Calcium(Ca)	0-0.5 (ppm)	0.00 ppm
Assay(as NH <sub>3</sub> )	28-30 (%)	28.89%
Germanium(Ge)	0-50 (ppb)	0.00 ppb
Magnesium(Mg)	0-50 (ppb)	0.00 ppb
Beryllium(Be)	0-50 (ppb)	0.00 ppb
Barium(Ba)	0-50 (ppb)	0.00 ppb
Stannum(Sn)	0-50 (ppb)	0.00 ppb
Gallium(Ga)	0-50 (ppb)	0.01 ppb
Sb	0-50 (ppb)	0.00 ppb
Aluminum(Al)	0-50 (ppb)	0.00 ppb
Copper(Cu)	0-40 (ppb)	0.00 ppb
Cobalt(Co)	0-50 (ppb)	0.00 ppb
Chromium(Cr)	0-50 (ppb)	0.01 ppb
Lithium(Li)	0-50 (ppb)	0.00 ppb
Titanium(Ti)	0-50 (ppb)	0.00 ppb
Ta	0-50 (ppb)	0.01 ppb
Zirconium(Zr)	0-50 (ppb)	0.00 ppb
Chloride(Cl-)	0-0.3 (ppm)	0.00 ppm
Strontium(Sr)	0-50 (ppb)	0.00 ppb
Silver(Ag)	0-20 (ppb)	0.00 ppb
Niobium(Nb)	0-50 (ppb)	0.00 ppb
Sodium(Na)	0-50 (ppb)	0.04 ppb
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.8 (ppm)	0.01 ppm
(Pb)Lead	0-25 (ppb)	0.01 ppb

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Parameter	Limit Values	Result
Potassium(K)	0-50 (ppb)	0.04 ppb
Manganese(Mn)	0-50 (ppb)	0.00 ppb
Bismuth(Bi)	0-50 (ppb)	0.00 ppb
(As)Arsenic	0-50 (ppb)	0.00 ppb
Molybdenum(Mo)	0-50 (ppb)	0.00 ppb
Zinc(Zn)	0-30 (ppb)	0.00 ppb
Phosphate(PO4)	0-0.4 (ppm)	0.00 ppm
Boron(B)	0-50 (ppb)	0.06 ppb
Vanadium(V)	0-50 (ppb)	0.00 ppb
Nickel(Ni)	0-20 (ppb)	0.00 ppb
Iron(Fe)	0-50 (ppb)	0.00 ppb
Aurum(Au)	0-50 (ppb)	0.00 ppb



John Su  
QA & QC Manager