

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-06-02 15:54:51
 Date of Next Testing: 2029-06-01 15:54:51
 Product Name: **Tetramethylammonium hydroxide solution**
 CAS Number: 75-59-2
 Specifications & Purity: Ultra pure, for trace analysis , 25% in H₂O
 Lot #: E2521599
 SKU #: **T131029**
 Version: **0**
 Analysis #: **503867**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Thallium (ICP)	0-0.5 (ppb)	0.00000 ppb
Osmium (ICP)	0-0.5 (ppb)	0.00000 ppb
Iridium (ICP)	0-1 (ppb)	0.35100 ppb
Vanadium (ICP)	0-1 (ppb)	0.15400 ppb
Magnesium(Mg)	0-0.5 (ppb)	0.00000 ppb
Potassium(ICP)	0-10 (ppb)	0.00000 ppb
Lead (ICP)	0-5 (ppb)	0.21000 ppb
Cerium(ICP)	0-0.5 (ppb)	0.00000 ppb
Iron(ICP)	0-5 (ppb)	0.00000 ppb
Rhodium(ICP)	0-0.5 (ppb)	0.00000 ppb
Refractive index n ₂₀ /D	1.381-1.383	1.38200
Nickel(ICP)	0-1 (ppb)	0.00000 ppb
Cadmium(Cd)	0-0.5 (ppb)	0.27200 ppb
Ion chromatography (bromide)	0-50 (ppb)	0.00000 ppb
Strontium(Sr)	0-0.5 (ppb)	0.00000 ppb
Germanium (Ge)	0-0.5 (ppb)	0.00000 ppb
Silver(Ag)	0-0.5 (ppb)	0.19700 ppb
Concentration(Titration by 1M HCL)	24-26 (%)	25.12000 %
Cobalt(ICP)	0-0.5 (ppb)	0.00000 ppb
Density (20°C)	1.01-1.03	1.01070
Indium (ICP)	0-0.5 (ppb)	0.32000 ppb
Antimony (ICP)	0-0.5 (ppb)	0.00000 ppb
ion chromatography (fluoride)	0-50 (ppb)	0.00000 ppb
Calcium(Ca)	0-10 (ppb)	0.00000 ppb
Manganese(ICP)	0-0.5 (ppb)	0.00000 ppb

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Parameter	Limit Values	Result
Zirconium(Zr)	0-1 (ppb)	0.00000 ppb
Lithium (ICP)	0-0.5 (ppb)	0.00000 ppb
Zinc(ICP)	0-1 (ppb)	0.00000 ppb
Mercury(ICP)	0-0.5 (ppb)	0.00000 ppb
Dimethyl Sulfoxide(NMR)	0-5 (ppb)	0.00000 ppb
ion chromatography (nitrate)	0-250 (ppb)	0.00000 ppb
Barium (ICP)	0-0.5 (ppb)	0.00000 ppb
Arsenic (ICP)	0-0.5 (ppb)	0.00000 ppb
Beryllium (ICP)	0-0.5 (ppb)	0.00000 ppb
ion chromatography (sulfate)	0-500 (ppb)	0.00000 ppb
ion chromatography (phosphate)	0-50 (ppb)	0.00000 ppb
Titanium(Ti)	0-1 (ppb)	0.98000 ppb
Sodium(ICP)	0-10 (ppb)	0.00000 ppb
Platinum(Pt)	0-0.5 (ppb)	0.48000 ppb
Ruthenium (ICP)	0-0.5 (ppb)	0.48000 ppb
Tin(Sn)	0-0.5 (ppb)	0.00000 ppb
Palladium (ICP)	0-0.5 (ppb)	0.00000 ppb
Molybdenum (ICP)	0-0.5 (ppb)	0.48500 ppb
Selenium (ICP)	0-1 (ppb)	0.00000 ppb
Gold(Au)	0-1 (ppb)	0.00000 ppb
Bismuth (ICP)	0-0.5 (ppb)	0.00000 ppb
Rubidium (ICP)	0-0.5 (ppb)	0.45000 ppb
Chromium (ICP)	0-1 (ppb)	0.97000 ppb
Various guarantee label trace (ICP-MS)	0-10 (ppb)	0.00000 ppb
total-iodine		
Copper(ICP)	0-0.5 (ppb)	0.45000 ppb
Gallium(Ga)	0-0.5 (ppb)	0.48600 ppb
ion chromatography (chloride)	0-50 (ppb)	0.00000 ppb
Appearance (T131029)	Colorless to light yellow liquid or viscous liquid	Colorless to light yellow liquid or viscous liquid
Metal trace analysis by ICP-MS	corresponds to requirements	CORRESPONDS TO REQUIREMENTS
Proton NMR spectrum	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