

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-20 18:45:47
 Date of Next Testing: 2028-12-19 18:45:47
 Product Name: **Tetramethylammonium hydroxide solution**
 CAS Number: 75-59-2
 Specifications & Purity: Ultra pure, for trace analysis , 25% in H2O
 Lot #: L2417686
 SKU #: **T131029**
 Version: **0**
 Analysis #: **426947**
 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)	0.34400 ppb
Vanadium (ICP)	0-1 (ppb)	0.00000 ppb
Magnesium(Mg)	0-0.5 (ppb)	0.00000 ppb
Sodium(ICP)	0-10 (ppb)	0.00000 ppb
Platinum(Pt)	0-0.5 (ppb)	0.18800 ppb
Potassium(ICP)	0-10 (ppb)	0.00000 ppb
Ruthenium (ICP)	0-0.5 (ppb)	0.00000 ppb
Lead (ICP)	0-5 (ppb)	0.00000 ppb
Tin(Sn)	0-0.5 (ppb)	0.00000 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)	0.00000 ppb
Palladium (ICP)	0-0.5 (ppb)	0.00000 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)	0.00000 ppb
Concentration(Titration by 1M HCL)	24-26 (%)	25.11000 %
Cobalt(ICP)	0-0.5 (ppb)	0.00000 ppb
Rubidium (ICP)	0-0.5 (ppb)	0.00000 ppb

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Parameter	Limit Values	Result
Density (20°C)	1.01-1.03	1.02040
Indium (ICP)	0-0.5 (ppb)	0.00000 ppb
Antimony (ICP)	0-0.5 (ppb)	0.00000 ppb
Chromium (ICP)	0-1 (ppb)	0.00000 ppb
Various guarantee label trace (ICP-MS)	0-10 (ppb)	0.00000 ppb
total-iodine		
Copper(ICP)	0-0.5 (ppb)	0.00000 ppb
Calcium(Ca)	0-10 (ppb)	0.00000 ppb
Manganese(ICP)	0-0.5 (ppb)	0.00000 ppb
Gallium(Ga)	0-0.5 (ppb)	0.00000 ppb
Lithium (ICP)	0-0.5 (ppb)	0.00000 ppb
Zinc(ICP)	0-1 (ppb)	0.00000 ppb
ion chromatography (chloride)	0-50 (ppb)	0.00000 ppb
Mercury(ICP)	0-0.5 (ppb)	0.00000 ppb
Selenium (ICP)	0-1 (ppb)	0.00000 ppb
ion chromatography (nitrate)	0-250 (ppb)	0.00000 ppb
Gold(Au)	0-1 (ppb)	0.00000 ppb
Bismuth (ICP)	0-0.5 (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)	1.00000 ppb
Molybdenum (ICP)	0-0.5 (ppb)	0.50000 ppb
Dimethyl Sulfoxide(NMR)	0-5 (ppb)	5.00000 ppb
ion chromatography (fluoride)	0-50 (ppb)	50.00000 ppb
Zirconium(Zr)	0-1 (ppb)	0.83300 ppb
Appearance (T131029)	Colorless to light yellow liquid or viscous liquid	Colorless to light yellow liquid or viscous liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Metal trace analysis by ICP-MS	corresponds to requirements	CORRESPONDS TO REQUIREMENTS



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

John Su
QA & QC Manager