

Certificate of Analysis

Date of Testing: 2024-04-22 11:07:11

Date of Next Testing: 2027-04-22 11:07:11

Product Name: **Ruthenium(III) chloride hydrate**

CAS Number: 14898-67-0

Specifications & Purity: Suitable for Analysis, Premium pure

Lot #: D2402465

SKU #: **R432146**

Version: **1**

Analysis #: **319702**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Silver(Ag)	0-50 (ppm)	0.00 ppm
Gold(Au)	0-100 (ppm)	0.00000 ppm
Calcium(Ca)	0-50 (ppm)	0.00 ppm
Cadmium(Cd)	0-10 (ppm)	0.00 ppm
Cobalt(Co)	0-10 (ppm)	0.00 ppm
Chromium(Cr)	0-50 (ppm)	0.00 ppm
Copper(Cu)	0-50 (ppm)	0.00 ppm
Iron(Fe)	0-100 (ppm)	0.00 ppm
Mercury(Hg)	0-100 (ppm)	0.00 ppm
Iridium(Ir)	0-100 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Magnesium(Mg)	0-50 (ppm)	17.36 ppm
Sodium(Na)	0-100 (ppm)	0.00 ppm
Osmium(Os)	0-100 (ppm)	0.00 ppm
Lead(Pb)	0-50 (ppm)	0.00 ppm
Palladium(Pd)	0-100 (ppm)	19.12 ppm
Platinum(Pt)	0-100 (ppm)	0.00 ppm
Rhodium (Rh)	0-100 (ppm)	0.00 ppm
Zinc(Zn)	0-10 (ppm)	0.00 ppm
Assay(Ru)	35-40 (%)	39.98 %
Aluminium(Al)	0-10 (ppm)	0.00000 ppm
Manganese(Mn)	0-10 (ppm)	0.00 ppm
Nickel(Ni)	0-10 (ppm)	0.00 ppm
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

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

John Su
QA & QC Manager