

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-09 17:01:25

Date of Next Testing: 2027-05-08 17:01:25

Product Name: **Ruthenium chloride hydrate**

CAS Number: 14898-67-0

Specifications & Purity: 35.0-42.0% Ru basis

Lot #: E2306061

SKU #: **R109234**

Version: **0**

Analysis #: **024268**

Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Insoluble matter(1%, 25% HCL)	0-0.1 (%)	0.00000 %
Ru(Gravimetric Analysis After Reduction with Magnesium)	35-42 (%)	35.34000 %
Appearance (R109234)	Black or Grey Powder or Crystal or Chunk(s)	Black or Grey Powder or Crystal or Chunk(s)
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager