

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-20 17:11:37
 Date of Next Testing: 2026-08-19 17:11:37
 Product Name: **Ruthenium chloride hydrate**
 CAS Number: 14898-67-0
 Specifications & Purity: 35.0-42.0% Ru basis
 Lot #: H2217594
 SKU #: **R109234**
 Version: **0**
 Analysis #: **098199**
 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 (%)	39.43000 %
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