

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

### Certificate of Analysis

Date of Testing: 2026-04-15 15:34:49  
Date of Next Testing: 2030-04-14 15:34:49  
Product Name: **Ruthenium chloride hydrate**  
CAS Number: 14898-67-0  
Specifications & Purity: 35.0-42.0% Ru basis  
Lot #: D2614519  
SKU #: **R109234**  
Version: **0**  
Analysis #: **690209**  
Storage Temperature: Room temperature,Argon charged,Desiccated

Parameter	Limit Values	Result
Ru(Gravimetric Analysis After Reduction with Magnesium)	35-42 (%)	37.03000 %
Insoluble matter(1%, 25% HCL)	0-0.1 (%)	0.10000 %
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