

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

### Certificate of Analysis

Date of Testing: 2023-08-31 16:55:08  
Date of Next Testing: 2027-08-30 16:55:08  
Product Name: **Ruthenium(III) chloride anhydrous**  
CAS Number: 10049-08-8  
Specifications & Purity: Ru content 45-55%  
Lot #: H2323476  
SKU #: **R119430**  
Version: **0**  
Analysis #: **246517**  
Storage Temperature: Protected from light,Room temperature,Argon charged,Desiccated,Cool

Parameter	Limit Values	Result
Insoluble matter	0-20 (%)	10.30000 %
Ru (After Reduction with Mg)	45-55 (%)	48.51000 %
Appearance (R119430)	Black Crystals, Powder or Granular and/or Chunks	Black Crystals, Powder or Granular and/or Chunks
ICP: Confirms Ru Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager