

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-06-01 10:26:16  
 Date of Next Testing: 2028-05-31 10:26:16  
 Product Name: **Ruthenium(III) chloride anhydrous**  
 CAS Number: 10049-08-8  
 Specifications & Purity: Ru content 45-55%  
 Lot #: E2430281  
 SKU #: **R119430**  
 Version: **0**  
 Analysis #: **358842**  
 Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated, Cool

| Parameter                    | Limit Values                                     | Result                                           |
|------------------------------|--------------------------------------------------|--------------------------------------------------|
| Ru (After Reduction with Mg) | 45-55 (%)                                        | 45.01000 %                                       |
| Insoluble matter             | 0-20 (%)                                         | 0.05600 %                                        |
| 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