

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-30 16:18:41  
 Date of Next Testing: 2026-05-29 16:18:41  
 Product Name: **Ruthenium(III) chloride hydrate**  
 CAS Number: 14898-67-0  
 Specifications & Purity: high-purity, Reagent grade  
 Lot #: E2325844  
 SKU #: **R432143**  
 Version: **1**  
 Analysis #: **220589**  
 Storage Temperature: Room temperature, Argon charged, Cool

| Parameter                                               | Limit Values                                | Result                                      |
|---------------------------------------------------------|---------------------------------------------|---------------------------------------------|
| Insoluble matter(1%, 25% HCL)                           | 0-0.1 (%)                                   | 0.00000 %                                   |
| Ru(Gravimetric Analysis After Reduction with Magnesium) | 40-49 (%)                                   | 48.95000 %                                  |
| Appearance(R432143)                                     | Black or Grey Powder or Crystal or Chunk(s) | Black or Grey Powder or Crystal or Chunk(s) |
| X-Ray Diffraction                                       | Conforms to Structure                       | Conforms to Structure                       |



John Su  
QA & QC Manager