

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-08 11:19:21  
 Date of Next Testing: 2028-07-07 11:19:21  
 Product Name: **Dichlorotris(1,10-phenanthroline)ruthenium(II) hydrate**  
 CAS Number: 207802-45-7  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: F2527409  
 SKU #: **D168488**  
 Version: **2**  
 Analysis #: **516288**  
 Storage Temperature: Room temperature

| Parameter                                  | Limit Values                                    | Result                                          |
|--------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Carbon by Elemental Analysis(anhydrous)    | 59.1-62.2 (%)                                   | 59.50000 %                                      |
| Nitrogen by Elemental Analysis (anhydrous) | 11.5-12.1 (%)                                   | 11.54000 %                                      |
| Appearance (D168488)                       | Orange to Dark Orange and Red to Dark Red Solid | Orange to Dark Orange and Red to Dark Red Solid |
| Proton NMR spectrum                        | Conforms to Structure                           | Conforms to Structure                           |



John Su  
QA & QC Manager