

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-25 14:55:03  
Date of Next Testing: 2028-09-24 14:55:03  
Product Name: **Tris(2,2'-bipyridyl)dichlororuthenium(II) hexahydrate**  
CAS Number: 50525-27-4  
Specifications & Purity:  $\geq 99.95\%$  metals basis  
Lot #: I2515619  
SKU #: T432774  
Version: 1  
Analysis #: 564322  
Storage Temperature: Protected from light, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	45.7-50.5 (%)	47.13 %
Nitrogen by Elemental Analysis	10.7-11.8 (%)	11.01 %
Purity(Based On Trace Metals Analysis)	99.95-100 (%)	99.96 %
Trace Metal Analysis	0-500 (ppm)	362.00 ppm
Water by Karl Fischer	13.5-15 (%)	15.00 %
Appearance(T432774)	Orange to Dark Red Powder	Orange to Dark Red Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
ICP: Confirms Ruthenium Component	Confirmed	Confirmed



John Su  
QA & QC Manager