

## Certificate of Analysis

Date of Testing: 2023-08-29 13:41:28  
Date of Next Testing: 2026-08-28 13:41:28  
Product Name: **Tris(2,2'-bipyridyl)dichlororuthenium(II) hexahydrate**  
CAS Number: 50525-27-4  
Specifications & Purity: 99.95% trace metals basis  
Lot #: H2324714  
SKU #: **T432774**  
**Analysis:** **263405**  
Storage Temperature: Protected from light, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	45.7-50.5 (%)	46.27 %
Nitrogen by Elemental Analysis	10.7-11.8 (%)	10.86 %
Purity(Based On Trace Metals Analysis)	99.95-100 (%)	99.95 %
Trace Metal Analysis	0-500 (ppm)	499.00 ppm
Water by Karl Fischer	13.5-15 (%)	13.52 %
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