

## Certificate of Analysis

Date of Testing: 2022-05-17 10:33:02  
Date of Next Testing: 2026-05-16 10:33:02  
Product Name: **Tris(2,2'-bipyridine)ruthenium dichloride**  
CAS Number: 14323-06-9  
Specifications & Purity:  $\geq 98\%$   
Lot #: E2213129  
SKU #: **T299622**  
**Analysis:** **079497**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.00000 %
Appearance(T299622)	Bright red crystalline powder	Bright red crystalline powder
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager