

## Certificate of Analysis

Date of Testing: 2023-05-17 16:20:02  
Date of Next Testing: 2027-05-16 16:20:02  
Product Name: **Ruthenium oxide hydrate**  
CAS Number: 32740-79-7  
Specifications & Purity: Ru $\geq$ 44%  
Lot #: E2315637  
SKU #: **R113205**  
Version: **0**  
Analysis #: **160038**  
Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Ruthenium Assay	44-76.5 (%)	51.08 %
Iron(Fe)	0-0.005 (%)	0.00 %
Refractive Index Measurement Range	0-0.005 (%)	0.00 %
Appearance (R113205)	black powder	black powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager