

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-10-10 14:21:44
 Date of Next Testing: 2027-10-09 14:21:44
 Product Name: **Ruthenium(IV) oxide**
 CAS Number: 12036-10-1
 Specifications & Purity: $\geq 99.9\%$ metals basis
 Lot #: J2308641
 SKU #: **R111923**
 Version: **1**
 Analysis #: **278465**
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
total metallic impurities(by ICP Atomic emission)	0-1500 (ppm)	680.00000 ppm
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.93200 %
Ruthenium (Ru)	74-76 (%)	75.67000 %
Appearance (R111923)	Blue-Black to Black Powder and/or Chunks	Blue-Black to Black Powder and/or Chunks
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager