

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-21 13:41:26
 Date of Next Testing: 2028-11-20 13:41:26
 Product Name: **Ruthenium(IV) oxide**
 CAS Number: 12036-10-1
 Specifications & Purity: $\geq 99.9\%$ metals basis
 Lot #: K2415331
 SKU #: **R111923**
 Version: **1**
 Analysis #: **415495**
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
total metallic impurities(by ICP Atomic emission)	0-1500 (ppm)	148.00000 ppm
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.98520 %
Ruthenium (Ru)	74-76 (%)	74.10000 %
Appearance (R111923)	Blue-Black to Black Powder and/or Chunks	Blue-Black to Black Powder and/or Chunks
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
ICP: Confirms Ruthenium Component	Confirmed	Confirmed



John Su
QA & QC Manager