

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-14 14:11:37

Date of Next Testing: 2027-01-13 14:11:37

Product Name: **Ruthenium(IV) oxide**

CAS Number: 12036-10-1

Specifications & Purity: $\geq 99.9\%$ metals basis

Lot #: A23061028

SKU #: **R111923**

Version: **1**

Analysis #: **155933**

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Ruthenium (Ru)	74-76 (%)	75.36000 %
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.92000 %
total metallic impurities(by ICP Atomic emission)	0-1500 (ppm)	800.00000 ppm
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