

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

### Certificate of Analysis

Date of Testing: 2025-08-28 11:18:24  
Date of Next Testing: 2028-08-27 11:18:24  
Product Name: **Ruthenium on carbon**  
CAS Number: 7440-18-8  
Specifications & Purity: extent of labeling: 5wt. % loading  
Lot #: H2518015  
SKU #: **R475386**  
Version: **1**  
Analysis #: **331497**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-10 (%)	0.00 %
Content(Ruthenium)(on dry base)	4.9-5.1 (%)	4.98 %
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
Matrix,Carbon support	Conforms	Conforms



John Su  
QA & QC Manager