

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-02 18:26:32
 Date of Next Testing: 2028-07-01 18:26:32
 Product Name: **Hafnium chloride**
 CAS Number: 13499-05-3
 Specifications & Purity: $\geq 99.5\%$
 Lot #: F2513428
 SKU #: **H190650**
 Version: **0**
 Analysis #: **517428**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Zirconium(Zr)	0-0.5 (%)	0.00520 %
Trace Metal Analysis	0-1500 (ppm)	370.00000 ppm
Purity(Based On Trace Rare Earth Analysis)	99.5-100 (%)	99.96300 %
Purity (Chloride Titration by AgNO ₃)	43.4-45.2 (%)	43.53000 %
Appearance (H190650)	White powder	White powder
ICP:Confirms Hafnium Component	Confirmed	Confirmed



John Su
QA & QC Manager