

Certificate of Analysis

Date of Testing: 2023-08-22 10:40:41

Date of Next Testing: 2026-08-21 10:40:41

Product Name: **Hafnium chloride**

CAS Number: 13499-05-3

Specifications & Purity: 99.5%

Lot #: H2310331

SKU #: **H190650**

Analysis: **255589**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Zirconium(Zr)	0-0.5 (%)	0.03 %
Trace Metal Analysis	0-1500 (ppm)	21.00 ppm
Purity(Based On Trace Rare Earth Analysis)	99.5-100 (%)	100.00 %
Purity (Chloride Titration by AgNO3)	43.4-45.2 (%)	43.56 %
Appearance (H190650)	White powder	White powder
ICP:Confirms Hafnium Component	Confirmed	Confirmed



John Su
QA & QC Manager