

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-20 08:48:57  
Date of Next Testing: 2026-02-19 08:48:57  
Product Name: **Hafnium(IV) n-butoxide**  
CAS Number: 22411-22-9  
Specifications & Purity: 60% in n-butoxide, Hf: 22.6 wt%  
Lot #: B2314594  
SKU #: **H348242**  
**Analysis: 127011**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Hafnium(Hf)	20.6-24.6(%)	24.56 %
Concentration	55-65(%)	64.79 %
ICP:Confirms Hf Component	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager