

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-03 18:24:35  
 Date of Next Testing: 2027-06-23 18:24:35  
 Product Name: **Niobium standard**  
 CAS Number: 7440-03-1  
 Specifications & Purity: 1000µg/ml, in 1.0 mol/L hydrofluoric acid and trace HNO<sub>3</sub>  
 Lot #: F2523598  
 SKU #: **N489893**  
 Version: **2**  
 Analysis #: **500697**  
 Storage Temperature: Room temperature

| Parameter                                        | Limit Values                                 | Result                                       |
|--------------------------------------------------|----------------------------------------------|----------------------------------------------|
| Concentration                                    | 990-1010 (mg/L)                              | 1000.00000 mg/L                              |
| Related expanded uncertainty(k=2)                | 0-4 (%)                                      | 0.70000 %                                    |
| Solvent(hydrofluoric acid and HNO <sub>3</sub> ) | Conforms                                     | Conforms                                     |
| Appearance(N489893)                              | Colorless to Faint Yellow Transparent Liquid | Colorless to Faint Yellow Transparent Liquid |



John Su  
QA & QC Manager