

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-21 17:58:42

Date of Next Testing: 2026-11-20 17:58:42

Product Name: **Tantalum(IV) carbide**

CAS Number: 12070-06-3

Specifications & Purity:  $\geq 99.9\%$  metals basis

Lot #: K2218118

SKU #: **T111042**

Version: **0**

Analysis #: **158460**

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                                             | Limit Values                    | Result                          |
|-------------------------------------------------------|---------------------------------|---------------------------------|
| Purity(Based On Trace Metals Analysis)                | 99.9-100 (%)                    | 99.91180 %                      |
| Total Metallic Impuritie                              | 0-2000 (ppm)                    | 882.00000 ppm                   |
| Purity(Gravimetric Analysis)(after ignition to oxide) | 98.5-101.5 (%)                  | 98.50100 %                      |
| Appearance (T111042)                                  | Brown to Very Dark Brown Powder | Brown to Very Dark Brown Powder |
| ICP:Confirms Tantalum Component                       | Confirmed                       | Confirmed                       |
| X-Ray Diffraction                                     | Conforms to Structure           | Conforms to Structure           |



John Su  
QA & QC Manager