

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-05 11:09:37

Date of Next Testing: 2026-07-04 11:09:37

Product Name: **High-purity ultra-fine tantalum carbide powder (TaC)**

CAS Number: 12070-06-3

Specifications & Purity:  $\geq 98\%$ , particle size: 800-1000nm

Lot #: F23161378

SKU #: **H579153**

Version: **1**

Analysis #: **226211**

Storage Temperature: Room temperature, Argon charged

| Parameter                              | Limit Values                                  | Result                                        |
|----------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Particle size                          | 800-1000 (nm)                                 | 800.00000 nm                                  |
| Tantalum(Ta)                           | 90.04-97.54 (%)                               | 90.04100 %                                    |
| Trace Metal Analysis                   | 0-20000 (ppm)                                 | 19000.00000 ppm                               |
| Purity(Based On Trace Metals Analysis) | 98-100 (%)                                    | 98.10000 %                                    |
| Appearance(H579153)                    | yellowish-brown to brown to dark brown powder | yellowish-brown to brown to dark brown powder |
| X-Ray Diffraction                      | Conforms to Structure                         | Conforms to Structure                         |



John Su  
QA & QC Manager