

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-19 14:20:44

Date of Next Testing: 2027-05-18 14:20:44

Product Name: **Titanium nitride**

CAS Number: 25583-20-4

Specifications & Purity: $\geq 99.9\%$ metals basis, 20nm

Lot #: E23081126

SKU #: **T110281**

Version: **0**

Analysis #: **188163**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.96460 %
Particle size	10-30 (nm)	17.44000 nm
Total Metallic Impuritie	0-2000 (ppm)	354.00000 ppm
Ti(Gravimetric Analysis)	76.2-80.5 (%)	80.49000 %
Appearance (T110281)	Brown to black powder	Brown to black powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager