



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-29 18:50:31

Date of Next Testing: 2026-11-28 18:50:31

Product Name: **Titanium carbonitride**

CAS Number: 12654-86-3

Specifications & Purity: $\geq 99\%$ metals basis, powder, 1-2 μ m

Lot #: K2219155

SKU #: **T111302**

Version: **0**

Analysis #: **161490**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Total Metallic Impurities	0-10000 (ppm)	7064.00000 ppm
Particle size	1-2 (μ m)	1.50000 μ m
Purity(Based On Trace Metals Analysis)	99-100 (%)	99.29360 %
Appearance (T111302)	grey to black powder	grey to black powder
ICP:Confirms Titanium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager