

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-21 14:00:43

Date of Next Testing: 2027-03-20 14:00:43

Product Name: **Tungsten chloride**

CAS Number: 13283-01-7

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

Lot #: C2314514

SKU #: **T106506**

Version: **0**

Analysis #: **202330**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.90570 %
Total Metallic Impuritie	0-2000 (ppm)	943.00000 ppm
W(Gravimetric Analysis With Cinchonine)	44.7-48 (%)	44.75000 %
Appearance (T106506)	Blue to black powder or crystals	Blue to black powder or crystals
ICP: Confirms Tungsten Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager