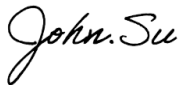


ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-27 10:01:13
Date of Next Testing: 2026-06-25 10:01:13
Product Name: **Titanium butoxide(TNBT)**
CAS Number: 5593-70-4
Specifications & Purity: $\geq 99\%$
Lot #: L2523213
SKU #: **T104105**
Version: **0**
Analysis #: **604934**
Storage Temperature: Room temperature,Argon charged,Desiccated,Cool

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.489-1.493	1.49170
Density (20°C)	0.996-1.007	0.99810
Ignition Residue	23.2-24.5 (%)	24.48000 %
Ti(Gravimetric Analysis After Ignition to Oxide)	13.6-14.6 (%)	14.56000 %
Appearance (T104105)	Colorless to light yellow liquid or viscous liquid	Colorless to light yellow liquid or viscous liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager