

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-11 19:03:12  
Date of Next Testing: 2025-06-09 19:03:12  
Product Name: **Titanium butoxide(TNBT)**  
CAS Number: 5593-70-4  
Specifications & Purity:  $\geq 99\%$   
Lot #: K2428161  
SKU #: **T104105**  
Version: **0**  
Analysis #: **438017**  
Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.489-1.493	1.49120
Density (20°C)	0.996-1.007	0.99920
Ignition Residue	23.2-24.5 (%)	23.20000 %
Ti(Gravimetric Analysis After Ignition to Oxide)	13.6-14.6 (%)	13.61000 %
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