

## Certificate of Analysis

Date of Testing: 2022-06-04 15:20:20  
Date of Next Testing: 2026-06-03 15:20:20  
Product Name: **Titanium oxide, rutile**  
CAS Number: 13463-67-7  
Specifications & Purity: nanopowder, 25 nm particle size, 99.8% metals basis, hydrophilic  
Lot #: E2227087  
SKU #: **T104942**  
**Analysis: 079884**

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.8-100 (%)	99.89%
Total Metallic Impurities	0-2000 (ppm)	1142.00 ppm
Particle size	15-35 (nm)	18.76 nm
Appearance (T104942)	white powder	White powder
Crystal form(Rutile)	pass	Pass
ICP:Confirms Titanium Component	Confirmed	Confirmed
surface properties,Hydrophilic	Conforms	Conforms
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager