

## Certificate of Analysis

Date of Testing: 2023-09-13 16:28:41  
Date of Next Testing: 2027-09-12 16:28:41  
Product Name: **Titanium oxide, rutile**  
CAS Number: 13463-67-7  
Specifications & Purity: nanopowder, <100 nm particle size, 99.8% metals basis, lipophilic  
Lot #: I2311034  
SKU #: **T104945**  
Analysis: **075354**

| Parameter                              | Limit Values          | Result                |
|--|-----------------------|-----------------------|
| Total Metallic Impurities              | 0-2000 (ppm)          | 814.00 ppm            |
| Purity(Based On Trace Metals Analysis) | 99.8-100 (%)          | 99.92 %               |
| Particle size                          | 80-120 (nm)           | 96.47 nm              |
| Appearance (T104945)                   | white powder          | White powder          |
| Crystal form(Rutile)                   | pass                  | Pass                  |
| ICP:Confirms Titanium Component        | Confirmed             | Confirmed             |
| X-Ray Diffraction                      | Conforms to Structure | Conforms to Structure |
| surface properties,Lipophilic          | Conforms              | Conforms              |



John Su  
QA & QC Manager