

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-10 19:19:12  
 Date of Next Testing: 2028-10-09 19:19:12  
 Product Name: **Bismuth(III) oxide**  
 CAS Number: 1304-76-3  
 Specifications & Purity: nanopowder, ≥99.8% trace metals basis, 100-500 nm particle size  
 Lot #: J2509241  
 SKU #: **B431714**  
 Version: **2**  
 Analysis #: **579582**  
 Storage Temperature: Room temperature, Desiccated, Cool

| Parameter                              | Limit Values                  | Result                        |
|----------------------------------------|-------------------------------|-------------------------------|
| Bismuth(Compleximetric EDTA)           | 87.9-100 (%)                  | 89.37000 %                    |
| Particle size                          | 100-500 (nm)                  | 243.64000 nm                  |
| Purity(Based On Trace Metals Analysis) | 99.8-100 (%)                  | 99.97120 %                    |
| Trace Metal Analysis                   | 0-2500 (ppm)                  | 288.00000 ppm                 |
| Appearance(B431714)                    | yellow to yellow-green powder | yellow to yellow-green powder |
| X-Ray Diffraction                      | Conforms to Structure         | Conforms to Structure         |



John Su  
QA & QC Manager