

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-22 14:19:32  
Date of Next Testing: 2027-03-22 14:19:32  
Product Name: **Ytterbium(III) oxide**  
CAS Number: 1314-37-0  
Specifications & Purity: nanopowder, <100 nm particle size (BET), ≥99.7% trace metals basis  
Lot #: C2412566  
SKU #: **Y431839**  
**Analysis:** **321018**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity Based On Rare Earth Analysis	99.7-100 (%)	99.98 %
Trace Rare Earth Analysis	0-3000 (ppm)	165.00 ppm
particle size(BET)	<100 (nm)	52.11 nm
Appearance(Y431839)	white powder	White powder
ICP:Confirms Ytterbium component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager