

## Certificate of Analysis

Date of Testing: 2022-10-27 13:51:40  
Date of Next Testing: 2025-10-26 13:51:40  
Product Name: **Ytterbium(III) Carbonate Hydrate**  
CAS Number: 342385-48-2  
Specifications & Purity: 99.9%  
Lot #: J2225103  
SKU #: **D303484**  
**Analysis: 048031**  
Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Purity Based On Rare Earth Analysis	99.9-100 (%)	100.00 %
Trace Rare Earth Analysis (by ICP Atomic emission)	0-2000 (ppm)	47.00 ppm
Yb <sub>2</sub> O <sub>3</sub>	45-75 (%)	66.82000 %
Appearance (D303484)	white to off-white powder or chunks	white to off-white powder or chunks
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager