

## Certificate of Analysis

Date of Testing: 2023-08-30 09:48:37  
Date of Next Testing: 2026-08-29 09:48:37  
Product Name: **Cerium(IV) oxide-samarium doped**  
CAS Number:  
Specifications & Purity: <0.5 $\mu$ m particle size, contains 20mol % samarium as dopant  
Lot #: H2316233  
SKU #: **C462985**  
Analysis: **242049**

Parameter	Limit Values	Result
Particle size(D50)	< 0.5 ( $\mu$ m)	0.04 $\mu$ m
Surface area	10-18 (m <sup>2</sup> /g)	17.26 m <sup>2</sup> /g
Appearance(C462985)	White to Light Yellow Powder	white to light yellow powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager