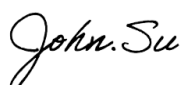


## Certificate of Analysis

Date of Testing: 2022-04-26 16:11:44  
Date of Next Testing: 2026-04-25 16:11:44  
Product Name: **Praseodymium(III, IV) oxide**  
CAS Number: 12037-29-5  
Specifications & Purity: 99.9% metals basis  
Lot #: D2224053  
SKU #: **P105310**  
Analysis: **080650**

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.9-100 (%)	99.94 %
pr (Complexometric titration)	80.7-85.7 (%)	83.50 %
Trace Rare Earth Analysis	0-2000 (ppm)	581.00 ppm
Appearance (P105310)	Dark brown or black powder	Dark brown or black powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager