

## Certificate of Analysis

Date of Testing: 2024-11-05 14:37:46  
Date of Next Testing: 2028-11-04 14:37:46  
Product Name: **Lanthanum hexaboride**  
CAS Number: 12008-21-8  
Specifications & Purity:  $\geq 99.5\%$  metals basis, powder,  $\geq 325$  mesh  
Lot #: A2108275  
SKU #: **L301754**  
Version: **1**  
Analysis #: **430810**

Parameter	Limit Values	Result
Lanthanum(La)	65.8-70.6 (%)	69.02%
Boron(B)	30.7-32.9 (%)	32.89%
Particle size	$\geq 325$ (mesh)	588.24 mesh
Purity(Based on Rare Earth Analysis)	99.5-100 (%)	99.94%
Trace Rare Earth Analysis	0-5000 (ppm)	617.00 ppm
Appearance (L301754)	Blue to Purple Powder/Pieces	Blue to Purple Powder/Pieces
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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QA & QC Manager