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## Certificate of Analysis

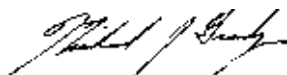
Product Name:

Lanthanum(III) carbonate hydrate - 99.9% trace metals basis

**Product Number:** 325767  
**Batch Number:** MKCC3328  
 Brand: ALDRICH  
 CAS Number: 54451-24-0  
 MDL Number: MFCD00149757  
 Formula: C<sub>3</sub>La<sub>2</sub>O<sub>9</sub> · xH<sub>2</sub>O  
 Formula Weight: 457.84 g/mol  
 Quality Release Date: 19 JAN 2017



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder to Crystalline Powder	Powder
Complexometric EDTA % Lanthanum (Typically 50% - 60%)		55.0 %
ICP Major Analysis Confirms Lanthanum Component	Confirmed	Conforms
Purity 99.9% Based On Rare Earth Analysis	Conforms	Conforms
Trace Rare Earth Analysis	≤ 1500.0 ppm	5.7 ppm
Barium (Ba)		153.6 ppm
Beryllium (Be)		0.2 ppm
Calcium (Ca)		557.6 ppm
Iron (Fe)		9.2 ppm
Magnesium (Mg)		0.7 ppm
Manganese (Mn)		6.0 ppm
Sodium (Na)		6.5 ppm
Palladium (Pd)		55.3 ppm
Zinc (Zn)		10.2 ppm
Zirconium (Zr)		0.7 ppm
Terbium (Tb)		5.7 ppm



Michael Grady, Manager

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Quality Control  
Milwaukee, WI US

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