

## Certificate of Analysis

Date of Testing: 2022-06-16 15:40:59  
 Date of Next Testing: 2026-06-15 15:40:59  
 Product Name: **Lanthanum nitrate hexahydrate**  
 CAS Number: 10277-43-7  
 Specifications & Purity: reagent grade,99%  
 Lot #: F2209149  
 SKU #: **L106046**  
**Analysis: 082993**

Parameter	Limit Values	Result
Chromium(Cr)	0-5 (ppm)	2.50 ppm
Calcium(Ca)	0-50 (ppm)	31.20 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Sulfate(SO42-)	0-50 (ppm)	19.76 ppm
Water by Karl Fischer	23-27 (%)	25.04 %
Iron(Fe)	0-10 (ppm)	0.00 ppm
(Pb)Lead	0-10 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-10 (ppm)	5.80 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-10 (ppm)	3.50 ppm
Manganese(Mn)	0-5	3.50
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Purity(T)	99-100 (%)	99.38 %
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Chloride (Cl-)	0-50 (ppm)	23.09 ppm
Appearance (L106046)	white crystal or crystal powder	white crystal or crystal powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager