

## Certificate of Analysis

Date of Testing: 2023-01-05 10:41:17  
 Date of Next Testing: 2027-01-04 10:41:17  
 Product Name: **Lanthanum nitrate hexahydrate**  
 CAS Number: 10277-43-7  
 Specifications & Purity: reagent grade,99%  
 Lot #: L2212049  
 SKU #: **L106046**  
**Analysis: 174210**

Parameter	Limit Values	Result
Chromium(Cr)	0-5 (ppm)	1.80 ppm
Calcium(Ca)	0-50 (ppm)	19.00 ppm
Copper(Cu)	0-5 (ppm)	2.20 ppm
Sulfate(SO42-)	0-50 (ppm)	25.00 ppm
Water by Karl Fischer	23-27 (%)	23.02 %
Iron(Fe)	0-10 (ppm)	4.50 ppm
(Pb)Lead	0-10 (ppm)	3.90 ppm
Magnesium(Mg)	0-5 (ppm)	2.10 ppm
Sodium(Na)	0-10 (ppm)	5.50 ppm
Cobalt(Co)	0-5 (ppm)	2.30 ppm
Potassium(K)	0-10 (ppm)	4.80 ppm
Manganese(Mn)	0-5	2.60
Nickel(Ni)	0-5 (ppm)	3.10 ppm
Purity(T)	99-100 (%)	100.00 %
Zinc(Zn)	0-5 (ppm)	2.40 ppm
Cadmium(Cd)	0-5 (ppm)	1.90 ppm
Chloride (Cl-)	0-50 (ppm)	23.00 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

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su  
QA & QC Manager