

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-12 11:00:47  
 Date of Next Testing: 2026-09-11 11:00:47  
 Product Name: **Lanthanum nitrate hexahydrate**  
 CAS Number: 10277-43-7  
 Specifications & Purity: reagent grade, 99%  
 Lot #: I2208376  
 SKU #: **L106046**  
**Analysis: 133685**

Parameter	Limit Values	Result
Chromium(Cr)	0-5 (ppm)	0.26 ppm
Calcium(Ca)	0-50 (ppm)	25.03 ppm
Copper(Cu)	0-5 (ppm)	0.31 ppm
Sulfate(SO42-)	0-50 (ppm)	19.63 ppm
Water by Karl Fischer	23-27 (%)	23.09 %
Iron(Fe)	0-10 (ppm)	4.50 ppm
(Pb)Lead	0-10 (ppm)	0.27 ppm
Magnesium(Mg)	0-5 (ppm)	0.39 ppm
Sodium(Na)	0-10 (ppm)	3.80 ppm
Cobalt(Co)	0-5 (ppm)	0.49 ppm
Potassium(K)	0-10 (ppm)	5.10 ppm
Manganese(Mn)	0-5	0.64
Nickel(Ni)	0-5 (ppm)	0.50 ppm
Purity(T)	99-100 (%)	99.67 %
Zinc(Zn)	0-5 (ppm)	0.43 ppm
Cadmium(Cd)	0-5 (ppm)	0.71 ppm
Chloride (Cl-)	0-50 (ppm)	31.06 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



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager