

## Certificate of Analysis

Date of Testing: 2022-07-09 10:03:45  
 Date of Next Testing: 2026-07-08 10:03:45  
 Product Name: **Lanthanum nitrate hexahydrate**  
 CAS Number: 10277-43-7  
 Specifications & Purity: reagent grade,99%  
 Lot #: G2205325  
 SKU #: **L106046**  
**Analysis: 049213**

Parameter	Limit Values	Result
Chromium(Cr)	0-5 (ppm)	1.36 ppm
Calcium(Ca)	0-50 (ppm)	13.40 ppm
Copper(Cu)	0-5 (ppm)	1.00 ppm
Sulfate(SO42-)	0-50 (ppm)	23.00 ppm
Water by Karl Fischer	23-27 (%)	23.37 %
Iron(Fe)	0-10 (ppm)	4.00 ppm
(Pb)Lead	0-10 (ppm)	6.30 ppm
Magnesium(Mg)	0-5 (ppm)	3.00 ppm
Sodium(Na)	0-10 (ppm)	4.70 ppm
Cobalt(Co)	0-5 (ppm)	2.60 ppm
Potassium(K)	0-10 (ppm)	2.80 ppm
Manganese(Mn)	0-5	2.00
Nickel(Ni)	0-5 (ppm)	1.40 ppm
Purity(T)	99-100 (%)	99.99 %
Zinc(Zn)	0-5 (ppm)	1.56 ppm
Cadmium(Cd)	0-5 (ppm)	2.00 ppm
Chloride (Cl-)	0-50 (ppm)	26.55 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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ALADDIN SCIENTIFIC CORPORATION

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

John Su  
QA & QC Manager