

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-09-14 18:48:31

Date of Next Testing: 2030-09-13 18:48:31

Product Name: **CHES**

CAS Number: 103-47-9

Grades & Purity: $\geq 99.5\%$ (T)

Lot #: I2611643

SKU #: **C110897**

Version: **0**

Analysis #: **777128**

Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Manganese(Mn)	0-5 (ppm)	0.62500 ppm
PH(25 °C, 0.5 M in Water)	3-5	4.56000
(As)Arsenic	0-0.1 (ppm)	0.00800 ppm
Barium(Ba)	0-5 (ppm)	1.41500 ppm
Magnesium(Mg)	0-5 (ppm)	1.25000 ppm
Lithium(Li)	0-5 (ppm)	1.08000 ppm
UV Absorbance 280nm	0-0.05	0.01000
Cobalt(Co)	0-5 (ppm)	0.95000 ppm
Aluminum(Al)	0-5 (ppm)	0.85500 ppm
UV Absorbance 260nm	0-0.08	0.03000
Strontium(Sr)	0-5 (ppm)	0.95500 ppm
Molybdenum(Mo)	0-5 (ppm)	1.05800 ppm
Ignition Residue	0-0.05 (%)	0.03500 %
loss on drying, 110 °C	0-0.5 (%)	0.21710 %
Bismuth(Bi)	0-5 (ppm)	0.08000 ppm
Calcium(Ca)	0-10 (ppm)	1.68000 ppm
Nickel(Ni)	0-5 (ppm)	1.09500 ppm
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.04100 ppm
Iron(Fe)	0-5 (ppm)	0.00620 ppm
Zinc(Zn)	0-5 (ppm)	0.04700 ppm
Cadmium(Cd)	0-5 (ppm)	0.04510 ppm
Sodium(Na)	0-50 (ppm)	0.15800 ppm
Sulfate(SO ₄ ²⁻)	0-500 (ppm)	0.03500 ppm
Chloride(Cl ⁻)	0-50 (ppm)	0.18000 ppm

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Parameter	Limit Values	Result
Chromium(Cr)	0-5 (ppm)	0.62000 ppm
Copper(Cu)	0-5 (ppm)	0.74000 ppm
Purity (Titration by NaOH)(anhydrous)	99.5-100.5 (%)	99.50000 %
useful PH range	8.6-10	9.00000
Appearance (C110897)	white crystalline powder	white crystalline powder
Insoluble matter	pass	Pass
pKa	6.8	6.8
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ,0.5 M in H ₂ O	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager