

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-17 09:22:24  
 Date of Next Testing: 2026-05-16 09:22:24  
 Product Name: **1,4-Dioxane**  
 CAS Number: 123-91-1  
 Specifications & Purity: Premium-Grade Reagents , for Analysis, ACS,ISO  
 Lot #: E2308444  
 SKU #: **D431641**  
**Analysis:** **214496**  
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.85 %
Acidity	0-0.0008 (eq/kg)	0.00000 eq/kg
Acetaldehyde	0-0.005 (%)	0.00 %
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	0-0.005 (%)	0.00310 %
Water by Karl Fischer	0-0.05 (%)	0.00 %
Residue on Evaporation	0-0.001 (%)	0.00 %
Color Test	0-10 (APHA)	0.00 APHA
Aluminium(Al)	0-0.5 (ppm)	0.00000 ppm
Boron(B)	0-0.02 (ppm)	0.00 ppm
Barium(Ba)	0-0.1 (ppm)	0.00 ppm
Calcium(Ca)	0-0.5 (ppm)	0.00 ppm
Cadmium(Cd)	0-0.05 (ppm)	0.00 ppm
Cobalt(Co)	0-0.02 (ppm)	0.00 ppm
Chromium(Cr)	0-0.02 (ppm)	0.00000 ppm
Iron(Fe)	0-0.1 (ppm)	0.00 ppm
Magnesium(Mg)	0-0.1 (ppm)	0.00 ppm
Manganese(Mn)	0-0.02 (ppm)	0.00 ppm
Nickel(Ni)	0-0.02 (ppm)	0.00 ppm
Lead(Pb)	0-0.1 (ppm)	0.00 ppm
Tin(Sn)	0-0.1 (ppm)	0.10 ppm
Zinc(Zn)	0-0.1 (ppm)	0.00 ppm
Copper(Cu)	0-0.02 (ppm)	0.00 ppm
Carbonyl compounds(CO)	0-0.01 (%)	0.00 %
formaldehyde	0-0.05 (%)	0.00 %
Appearance(D431641)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to structure	Conforms to Structure



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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