

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-10 17:46:11
 Date of Next Testing: 2029-06-09 17:46:11
 Product Name: **Isobutanol**
 CAS Number: 78-83-1
 Specifications & Purity: UltraBio™, Suitable for molecular biology, ≥99.5%(GC)
 Lot #: F2609201
 SKU #: **M755583**
 Version: **1**
 Analysis #: **722472**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.60700 %
Refractive index n20/D	1.395-1.397	1.39568
Water by Karl Fischer	0-0.1 (%)	0.04940 %
Ignition Residue	0-0.001 (%)	0.00000 %
Traces Aldehyde(as n-butanal)	0-100 (ppm)	80.00000 ppm
Traces Ketone(as CH ₃ COCH ₃)	0-100 (ppm)	60.00000 ppm
Traces Peroxide(As H ₂ O ₂)	0-10 (ppm)	6.38400 ppm
Free acid(as C ₃ H ₇ CHO)	0-0.005 (%)	0.00000 %
Aluminium(Al)	0-0.5 (ppm)	0.00000 ppm
Barium(Ba)	0-0.1 (ppm)	0.00000 ppm
Bismuth(Bi)	0-0.1 (ppm)	0.00000 ppm
Calcium(Ca)	0-0.5 (ppm)	0.00000 ppm
Cadmium(Cd)	0-0.05 (ppm)	0.00000 ppm
Cobalt(Co)	0-0.02 (ppm)	0.00000 ppm
Chromium(Cr)	0-0.02 (ppm)	0.00000 ppm
Copper(Cu)	0-0.02 (ppm)	0.00000 ppm
Iron(Fe)	0-0.1 (ppm)	0.00000 ppm
Potassium(K)	0-0.5 (ppm)	0.00000 ppm
Lithium(Li)	0-0.1 (ppm)	0.00000 ppm
Magnesium(Mg)	0-1 (ppm)	0.00000 ppm
Manganese(Mn)	0-0.02 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-0.1 (ppm)	0.00000 ppm
Sodium(Na)	0-1 (ppm)	0.00000 ppm
Nickel(Ni)	0-0.02 (ppm)	0.00000 ppm
Lead(Pb)	0-0.1 (ppm)	0.00000 ppm

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Parameter

Strontium(Sr)

Zinc(Zn)

UV Absorbance 260nm(Neat)

UV Absorbance 280nm (Neat)

Appearance(M755583)

Filtered (No Residue on Filter Test)

Extraneous Activities(DNAses, RNAses, Proteases, Phosphatases)

Limit Values

0-0.1 (ppm)

0-0.1 (ppm)

0-0.1

0-0.06

Colorless Liquid

No Residue

Not Detectable

Result

0.00000 ppm

0.00000 ppm

0.01900

0.01526

Colorless liquid

no residue

not detectable

A handwritten signature in black ink that reads "John Su".John Su
QA & QC Manager