

Certificate of Analysis

Date of Testing: 2025-02-27 08:38:21

Date of Next Testing: 2028-02-27 08:38:21

Product Name: **2-Mercaptoethanol**

CAS Number: 60-24-2

Specifications & Purity: BioUltra, for molecular biology, ≥99%(GC)

Lot #: B2525517

SKU #: **M755744**

Version: **3**

Analysis #: **476424**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.66 %
Density(D20/4°C)	1.114-1.116	1.11
Refractive index n20/D	1.500-1.502	1.50
Residue on Ignition	0-0.01 (%)	0.00200 %
Trace Metal Analysis	0-10000 (ppm)	3360.00 ppm
Aluminium(Al)	0-0.5 (ppm)	0.00000 ppm
Barium(Ba)	0-0.1 (ppm)	0.00 ppm
Bismuth(Bi)	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)	0.00 ppm
Copper(Cu)	0-0.02 (ppm)	0.00 ppm
Iron(Fe)	0-0.1 (ppm)	0.00 ppm
Potassium(K)	0-0.1 (ppm)	0.00 ppm
Manganese(Mn)	0-0.02 (ppm)	0.00 ppm
Molybdenum(Mo)	0-0.1 (ppm)	0.00 ppm
Sodium(Na)	0-1 (ppm)	0.00 ppm
Nickel(Ni)	0-0.05 (ppm)	0.00 ppm
Lead(Pb)	0-0.1 (ppm)	0.00 ppm
Strontium(Sr)	0-0.1 (ppm)	0.00 ppm
Zinc(Zn)	0-0.1 (ppm)	0.00 ppm
UV-ABS.at 260 nm	0.5-1.5	1.00000
UV-ABS.at 280 nm	0-0.3	0.20000
Appearance(M755744)	Colorless Liquid	Colorless liquid

ALADDIN SCIENTIFIC CORPORATION

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Parameter	Limit Values	Result
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
solubility (Method , 1.1720 g in 30mL H2O (0.5M))	pass	Pass
Residue(filter test)	no residue	no residue
EXTRANEIOUS ACTIVITIES (DNAses, RNAses, Proteases, Phosphatases)	Not Detectable	not detectable
λ,0.5 M in H2O	Pass	Pass

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

John Su
QA & QC Manager