

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-29 11:53:50
 Date of Next Testing: 2027-11-16 11:53:50
 Product Name: **DL-Dithiothreitol(DTT)**
 CAS Number: 3483-12-3
 Specifications & Purity: UltraBio™, Suitable for molecular biology, ≥99.5%(RT)
 Lot #: G2528178
 SKU #: **D755747**
 Version: **2**
 Analysis #: **544791**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-10 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-500 (ppm)	15.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
pH(0.1M in H ₂ O)	4.0-6.5	5.76000
UV Absorbance 260nm(0.1 M in H ₂ O)	0-0.4	0.33600
UV Absorbance 280nm(0.1 M in H ₂ O)	0-0.1	0.07700
Assay(Redox Titration)	99.5-100.5 (%)	100.24000 %
Assay(4,5-dihydroxy-1,2-dithiane)	0-0.3 (%)	0.30000 %
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	9.00000 ppm

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Parameter

Arsenic traces(MHS-AAS)

Appearance(D755747)

Solubility(0.1 M in H₂O),Clear Colorless

Infrared spectrum

Dnases, Rnases, Proteases, Phosphatases

Limit Values

0-0.5 (ppm)

Colorless or white powder

Pass

Conforms to Structure

None Detected

Result

0.50000 ppm

Colorless or White Powder

Pass

Conforms to Structure

none detected

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