

# Certificate of Analysis

## UltraPure™ Dithiothreitol

Product No. 15508013, 11568736

Lot No. 45700229

Date of Manufacture 31-May-2023

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### Appearance

Specification: White crystals

Results: Meets specification.

### Solubility

Specification: A 10% solution in water is clear and colorless

Results: Meets specification.

### Titration assay by - SH group

Specification:  $\geq 99.0\%$

Results: Meets specification.

### U.V. Assays

1% Solution  $A_{280}$

Specifications: Less than 0.067

Results: Meets specification.

1% Solution  $A_{305}$

Specifications: Less than 0.050

Results: Meets specification.

0.02 M Solution  $A_{283}$

Specifications: Less than 0.040

Results: Meets specification.

1M Neutral Solution A<sub>400</sub>

Specifications: Less than 0.062

Results: Meets specification.

1M Neutral Solution A<sub>405</sub>

Specifications: Less than 0.062

Results: Meets specification.

1M Neutral Solution OD 700 - 500 nm

Specifications:  $\leq 0.035$

Results: Meets specification.

### **Loss on drying**

Specification: Less than 0.50%

Results: Meets specification.

### **Melting point**

Specification: 40 - 44 °C

Results: Meets specification.

### **% Oxidized DTT**

Specification: Less than 0.50%

Results: Meets specification.

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