



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

Product: DL-Dithiothreitol (DTT)
Grade: BIOTECHNOLOGY GRADE
Code: 0281
Appearance: White powder.
Mol. Formula: C4H10O2S2
Mol. Weight: 154.25

Description:

<u>Assay:</u>	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
Abs.@260nm (0.1M, Water)	REPORT			PASS
Abs.@280nm (0.1M, Water)	REPORT			PASS
Abs.@283nm (0.02M, Water)		0.05		PASS
DNase		NONE	P/F	PASS
Expiration Date	REPORT			PASS
IR	PASS		P/F	PASS
Loss on Drying		0.5	%	PASS
Melting Point	39	43	Degrees C	PASS
Oxidized DTT		0.5	%	PASS
Protease		NONE	P/F	PASS
Purity (-SH Content)	99.4		%	PASS
RNase		NONE	P/F	PASS
Solubility (5%, Water)	PASS		P/F	PASS

Storage: Store frozen. Keep dry. Warm to room temperature before opening.

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This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

6/6/2012