

1,4-Dithiothreitol (DTT, Cleland's Reagent)
Biotech Reagent



Material No.: F781-05
Batch No.: 0000191996
Manufactured Date: 2017/09/20
Expiration Date: 2019/09/20
Revision No: 1

Certificate of Analysis

GMP Manufactured Product

Test	Specification	Result
Assay (HSCH ₂ (CHOH) ₂ CH ₂ SH)	>= 99.0 %	99.0
Appearance	Passes Test	PT
Absorbance of a 0.1M Solution (1-cm path vs water) at - 280 nm	<= 0.060	0.019
Absorbance of a 0.1M Solution (1-cm path vs water) at - 260 nm	<= 0.400	0.327
Infrared Spectrum	Passes Test	PT

CAUTION: For Manufacturing, processing or repackaging

Storage Conditions: Keep refrigerated between 2-8°C (36-46°F) and store under nitrogen.
Country of Origin: CA
Packaging Site: Paris Mfg Ctr & DC
Manufacturer: P0164001
Manufacturer source batch: 49219



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.

3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610