

Certificate of Analysis

PRODUCT: **DTT**, Dithiothreitol, Cleland's Reagent
C₄H₁₀O₂S₂, M.W. 154.25, CAS# [3483-12-3]

PRODUCT NUMBER: C-1029

LOT NUMBER: L1305

	<u>SPECIFICATION</u>	<u>RESULTS</u>
APPEARANCE:	White crystalline powder	Conforms
SOLUBILITY (10% solution in water):	Clear and colorless	Conforms
MELTING POINT:	42±2°C	40-41°C
I.R.:	Consistent with assigned structure	Conforms
TITRATION ex -SH (Iodometric):	≥99.0%	99.9%
PURITY (TLC):	One spot	Conforms
U.V. ASSAYS:		
<u>(1) 1% SOLUTION:</u>		
A₂₈₀	<0.067	0.020
A₃₀₅	<0.050	0.008
<u>(2) 0.02 M SOLUTION:</u>		
A₂₈₃	<0.040	0.006
<u>(3) 1 M NEUTRAL SOLUTION:</u>		
A₄₀₀	<0.062	0.018
A₄₀₅	<0.062	0.017
OD 700-500 nm	≤0.035	0.011
LOSS ON DRYING:	<0.50%	0.06%
% OXIDIZED DTT:	<0.50%	0.05%
COUNTRY of ORIGIN:	Canada	
STORAGE & HANDLING:	Store desiccated at +4°C under inert gas.	

WARNING: HARMFUL! VERY HYGROSCOPIC!

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KLS