



CERTIFICATE of ANALYSIS

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

PRODUCT NUMBER: C-1029

LOT NUMBER: B1808

	<u>SPECIFICATION</u>	<u>RESULTS</u>
APPEARANCE:	White crystalline powder	Conforms
SOLUBILITY (10% solution in water):	Clear and colorless	Conforms
TITRATION ex -SH (Iodometric):	≥ 99.0%	100.3%
U.V. ASSAYS:		
<u>(1) 1% SOLUTION:</u>		
A ₂₈₀	< 0.067	0.021
A ₃₀₅	< 0.050	0.010
<u>(2) 0.02 M SOLUTION:</u>		
A ₂₈₃	< 0.040	0.008
<u>(3) 1 M NEUTRAL SOLUTION:</u>		
A ₄₀₀	< 0.062	0.008
A ₄₀₅	< 0.062	0.007
OD 700-500 nm	≤ 0.035	0.004

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PURITY (TLC):	One spot	Conforms
LOSS ON DRYING:	<0.50%	0.16%
MELTING POINT:	42 ± 2°C	42-42°C
I.R.:	Consistent with assigned structure	Conforms
% OXIDIZED DTT:	<0.50%	0.15%

STORAGE & HANDLING:

Store 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: DD