# **Certificate of Analysis**

DTT, 100mM:

Part No.

Size

100µl

Description: DTT (dithiothreitol) is an antioxidant used to stabilize enzymes and other proteins containing sulfhydryl groups. Part# P117A is a 100mM solution of DTT in water.

Molecular Formula: HSCH<sub>2</sub>(CHOH)<sub>2</sub>CH<sub>2</sub>SH.

Molecular Weight: 154.25.

Storage Temperature: See the Product Information Label for storage conditions and expiration date.

## **Quality Control Assays**

Exonuclease Assay: To test for DNase and RNase activity, 50ng of [3H]-labeled DNA or [3H]-labeled RNA is incubated with DTT for 3 hours at 37°C, and the release of radiolabeled nucleotides is monitored by scintillation counting of TCA-precipitable and TCA-soluble material. The minimum passing specification is <1% release for DNase and <1% release for RNase.

Functional Assays: DTT is tested for optimal performance in the Riboprobe® Systems according to the methods described in the Riboprobe® in vitro Transcription System Technical Manual, #TM016.

DTT is used in a non-radioactive transcription assay using the pGEM® Express Positive Control Template provided with the Riboprobe® Systems and SP6 RNA Polymerase. The transcripts produced are of the correct size (1,787 and 2,566 bases) and show no degradation when visualized on an agarose gel following electrophoresis and ethidium bromide staining.

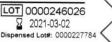
Signed by:

for Wheel R. Wheeler, Quality Assurance

### DTT, Molecular Grade



LOT 0000246026 2021-03-02



For Laboratory Use

Country of Origin: USA

Internet

Promega Corporation 2800 Woods Hollow Road Madison, WI 53711-5399 USA





ADP1171 00002460266



#### **Promega Corporation** 2800 Woods Hollow Road Madison, WI 53711-5399 608-274-4330 Telephone Toll Free 800-356-9526 608-277-2516

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