

## Certificate of Analysis

### DTT, 100mM:

Part No.	Size
P117A	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 [<sup>3</sup>H]-labeled DNA or [<sup>3</sup>H]-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.

DTT, Molecular Grade

REF P1171

LOT 0000230870

-30°C to -10°C

2021-03-02

Dispensed Lot#: 0000208184

100µl

For Laboratory Use

Country of Origin: USA

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



ADP1171 00002308704

PEEL  
HERE



# Promega

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Signed by:

R. Wheeler, Quality Assurance