

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: HSCH₂(CHOH)₂CH₂SH.

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.

DTT, Molecular Grade

REF	P1171	LOT	0000246026
-30°C	-10°C	2021-03-02	
100µl		Dispensed Lot#: 0000227784	

For Laboratory Use

Country of Origin: USA

Promega Corporation
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Madison, WI 53711-5399 USA



ADP1171 00002460266



Promega

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Signed by:

R. Wheeler, Quality Assurance