

## New England Biolabs Certificate of Analysis

**Product Name:** DNase I-XT  
**Catalog Number:** M0570S  
**Concentration:** 2,000 U/ml  
**Unit Definition:** One unit is defined the amount of enzyme required to release 260 pmol of FAM from FAM-BHQ1 labeled 35 nt hairpin oligo in 1 min at 30°C in a 50 µl reaction.  
**Packaging Lot Number:** 10135979  
**Expiration Date:** 01/2024  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl, 2 mM CaCl<sub>2</sub>, 50% Glycerol, (pH 7.6 @ 25°C)  
**Specification Version:** PS-M0570S/L v2.0

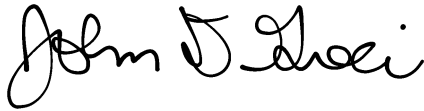
DNase I-XT Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0570SVIAL	DNase I-XT	10135973	Pass
B0570SVIAL	DNase I-XT Reaction Buffer	10135984	Pass

Assay Name/Specification	Lot # 10135979
<p><b>qPCR DNA Contamination (Eukaryotic Genomic)</b>            A minimum of 2 units of DNase I-XT is screened for the presence of eukaryotic genomic DNA using SYBR® Green qPCR with universal primers for the 18S rRNA locus. Results are quantified using a standard curve generated from purified E. album genomic DNA. The measured level of eukaryotic genomic DNA contamination is ≤ 2.5 pg DNA/µl.</p>	Pass
<p><b>Protein Purity Assay (SDS-PAGE)</b>            DNase I-XT is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p><b>RNase Activity (Extended Digestion)</b>            A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 2 units of DNase I-XT is incubated at 37°C. After incubation for 4 hours, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit

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10 Aug 2022



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Erin Varney  
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10 Aug 2022