

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: 10212823
Expiration Date: 04/2025
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 2 mM CaCl₂, 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	10184026	Pass
B0570SVIAL	DNase I-XT Reaction Buffer	10211723	Pass

Assay Name/Specification	Lot # 10212823
Protein Purity Assay (SDS-PAGE) DNase I-XT is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) 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, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
qPCR DNA Contamination (Eukaryotic Genomic) 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.	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

www.neb.com/trademarks for additional information.


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Production Scientist
03 May 2023


Josh Hersey
Packaging Quality Control Inspector
01 Dec 2023