240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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: 10222861
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				
<b>NEB Part Number</b>	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 # 10222861
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
<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/μI.	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



M0570S / Lot: 10222861



www.neb.com/trademarks for additional information.

Penghua Zhang

Production Scientist

03 May 2023

Michael Tonello

Packaging Quality Control Inspector

09 Jan 2024