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: M0570L
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: 10135978
Expiration Date: 01/2024
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	
M0570LVIAL	DNase I-XT	10135974	Pass	
B0570SVIAL	DNase I-XT Reaction Buffer	10135984	Pass	

Assay Name/Specification	Lot # 10135978
Protein Purity Assay (SDS-PAGE) DNase I-XT is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue 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/μI.	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

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



M0570L / Lot: 10135978

www.neb.com/trademarks for additional information.

John Greci

Production Scientist

10 Aug 2022

Erin Varney

Packaging Quality Control Inspector

10 Aug 2022