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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 (RNase-free)
Catalog Number:	M0303L
Concentration:	2,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme which will completely degrade 1 µg of pBR322 DNA in 10 minutes at 37°C in DNase I Reaction Buffer. Complete degradation is defined as the reduction of the majority of DNA fragments to tetranucleotides or smaller.
Packaging Lot Number:	10115312
Expiration Date:	04/2023
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCl (pH 7.6), 2 mM CaCl2 , 50 % Glycerol
Specification Version:	PS-M0303S/L v1.0

DNase I (RNase-free) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0303LVIAL	DNase I (RNase-free)	10105299	Pass	
B0303SVIAL	DNase I Reaction Buffer	10099868	Pass	

Assay Name/Specification	Lot # 10115312
Protein Purity Assay (SDS-PAGE) DNase I (RNase-free) is \geq 95% pure as determined by SDS-PAGE analysis using	Pass
Coomassie Blue detection.	
RNase Activity (ds RNA)	Pass
A 50 µl reaction in DNase I Reaction Buffer containing 10 µg of a dsRNA Ladder and a minimum of 100 units of DNase I (RNase-free) is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection.	
RNase Activity (Extended Digestion)	Pass
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 (RNase-free) is incubated at 37°C. After	
incubation for 16 hours, >90% of the substrate RNA remains intact as determined by	
gel electrophoresis using fluorescent detection.	

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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John Greci **Production Scientist** 26 Jul 2021

Josh Hersey Packaging Quality Control Inspector

26 Jul 2021

