

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	M0303S
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.
Lot Number:	10021479
Expiration Date:	08/2020
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	
M0303SVIAL	DNase I (RNase-free)	10018181	Pass	
B0303SVIAL	DNase I Reaction Buffer	10015391	Pass	

Assay Name/Specification	Lot # 10021479
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 μ I reaction in DNase I Reaction Buffer containing 10 μ g 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 μ I 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.





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