

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:	10041611
Expiration Date:	04/2021
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0303SVIAL	DNase I (RNase-free)	10036297	Pass	
B0303SVIAL	DNase I Reaction Buffer	10041566	Pass	

Assay Name/Specification	Lot # 10041611
Protein Purity Assay (SDS-PAGE)	Pass
DNase I (RNase-free) is ≥ 95% pure as determined by SDS-PAGE analysis using 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.





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