NEW ENGLAND BioLabs Inc.
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:	*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.*
Lot Number:	*10049142*
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*

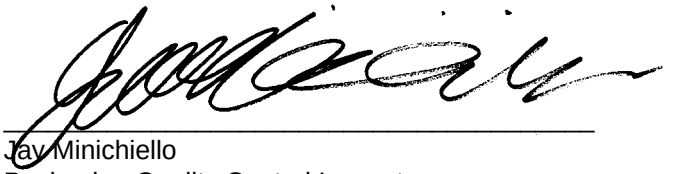
DNase I (RNase-free) Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
M0303LVIAL	DNase I (RNase-free)	10037300	**Pass**
B0303SVIAL	DNase I Reaction Buffer	10041566	**Pass**

Assay Name/Specification	**Lot # 10049142**
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 (RNase-free) is incubated at 37ºC. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	**Pass**
RNase Activity (ds RNA) 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 37ºC. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection.	**Pass**
Protein Purity Assay (SDS-PAGE) DNase I (RNase-free) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	**Pass**

This product has been tested and shown to be in compliance with all specifications.

NEW ENGLAND BioLabs Inc.
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

John Greci
Production Scientist
04 Apr 2019



Jay Minichiello
Packaging Quality Control Inspector
07 Aug 2019