

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 #:	М0303В-МТ	
Concentration:	2,000 units/ml	
Unit Definition:	One unit is defined as the amount of enzyme which will completely degrade 1 $\mu$ g of pBR322 DNA in DNase I Reaction Buffer. Complete degradation is defined as the reduction of the majority of DNA fragor smaller.	
<i>Lot</i> #:	0161601	
Assay Date:	01/2016	
Expiration Date:	01/2018	
Storage Temp:	-20°C	
Storage Buffer:	10 mM Tris-HCl (pH 7.6), 2 mM CaCl2 , 50 % Glycerol	
Specification Version:	PS-M0303S/L v1.0	
Effective Date:	22 Apr 2015	
Access Name (Specifi	antina (minimum relaces eritaria)	Lat #0161601

Assay Name/Specification (minimum release criteria)	Lot #0161601
<b>Protein Purity Assay (SDS-PAGE)</b> - DNase I (RNase-free) is $\geq$ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<b>RNase Activity (ds RNA)</b> - A 50 $\mu$ l reaction in DNase I Reaction Buffer containing 10 $\mu$ 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.	Pass
<b>RNase Activity (Extended Digestion)</b> - A 10 $\mu$ l 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.	Pass

otunon

Authorized by Derek Robinson 22 Apr 2015



Honexian Gue

Inspected by Dongxian Yue 23 Dec 2015