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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 μ 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
Protein Purity Assay (SDS-PAGE) - DNase I (RNase-free) is \geq 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (ds RNA) - A 50 μ l 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.	Pass
RNase Activity (Extended Digestion) - A 10 μ 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

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Authorized by Derek Robinson 22 Apr 2015



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Inspected by Dongxian Yue 23 Dec 2015