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New England Biolabs Certificate of Analysis

Product Name:	DNase I (RNase-free)
Catalog #:	M0303S/L
Concentration:	2,000 units/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.
<i>Lot</i> #:	0161509
Assay Date:	09/2015
Expiration Date:	09/2017
Storage Temp:	-20°C
Storage Conditions:	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 / Specific	Lot #0161500

Assay Name/Specification (minimum release criteria)	Lot #0161509
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 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.	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



Alm J. Loci

Inspected by John Greci 30 Sep 2015