

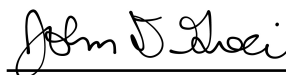
## New England Biolabs Certificate of Analysis

**Product Name:** *DNase I (RNase-free)*  
**Catalog #:** *M0303S/L*  
**Concentration:** *2,000 units/ml*  
**Lot #:** *0161602*  
**Assay Date:** *02/2016*  
**Expiration Date:** *2/2018*  
**Storage Temp:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl (pH 7.6), 2 mM CaCl<sub>2</sub>, 50 % Glycerol*  
**Specification Version:** *PS-M0303S/L v1.0*  
**Effective Date:** *22 Apr 2015*

Assay Name/Specification (minimum release criteria)	Lot #0161602
<b>Protein Purity Assay (SDS-PAGE)</b> - DNase I (RNase-free) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	<b>Pass</b>
<b>RNase Activity (ds RNA)</b> - 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.	<b>Pass</b>
<b>RNase Activity (Extended Digestion)</b> - 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.	<b>Pass</b>



Authorized by  
Derek Robinson  
22 Apr 2015



Inspected by  
John Greci  
24 Feb 2016

