

## New England Biolabs Certificate of Analysis

**Product Name:** *Random Primer Mix*  
**Catalog #:** *S1330S*  
**Concentration:** *60 μM*  
**Lot #:** *0091701*  
**Assay Date:** *01/2017*  
**Expiration Date:** *01/2020*  
**Storage Temp:** *-20°C*  
**Composition (1X):** *1 mM dATP, 1 mM dCTP, 1 mM dGTP, 1 mM dTTP, 35 μM Hexamers, 25 μM dT(23)VN supplied in ultrapure water.*  
**Specification Version:** *PS-S1330S v1.0*  
**Effective Date:** *20 Jan 2017*

Assay Name/Specification (minimum release criteria)	Lot #0091701
<b>Endonuclease Activity (Nicking)</b> - A 25 μl reaction in NEBuffer 2 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 5 μl of Random Primer Mix incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	<b>Pass</b>
<b>Non-Specific DNase Activity (16 Hour)</b> - A 50 μl reaction in NEBuffer 2 containing 1 μg of T3 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 5 μl of Random Primer Mix incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	<b>Pass</b>
<b>Phosphatase Activity (pNPP)</b> - A 200 μl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl <sub>2</sub> containing 2.5 mM <i>p</i> -Nitrophenyl Phosphate (pNPP) and a minimum of 20 μl of Random Primer Mix incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	<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 1 μl of Random Primer Mix 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  
Karen Moreira  
20 Jan 2017



Inspected by  
Lynne Apone  
20 Jan 2017

