

## New England Biolabs Certificate of Analysis

**Product Name:** *Random Primer Mix*  
**Catalog Number:** *S1330S*  
**Concentration:** *60 µM*  
**Packaging Lot Number:** *10121021*  
**Expiration Date:** *06/2024*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-S1330S v2.0*  
**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.*

Random Primer Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1330SVIAL	Random Primer Mix	10115029	Pass

Assay Name/Specification	Lot # 10121021
<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>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 p-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>
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 µl reaction in NEBuffer 2 containing 1 µg of T3 or T7 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>

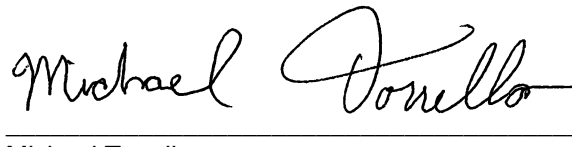
This product has been tested and shown to be in compliance with all specifications.

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08 Nov 2021



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Michael Tonello  
Packaging Quality Control Inspector  
08 Nov 2021