

## New England Biolabs Certificate of Analysis

**Product Name:** Random Primer Mix  
**Catalog Number:** S1330S  
**Concentration:** 60  $\mu$ M  
**Packaging Lot Number:** 10075360  
**Expiration Date:** 02/2023  
**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  $\mu$ M Hexamers, 25  $\mu$ M 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	10075044	Pass

Assay Name/Specification	Lot # 10075360
<b>RNase Activity (Extended Digestion)</b> A 10 $\mu$ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 $\mu$ l 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.	Pass
<b>Phosphatase Activity (pNPP)</b> A 200 $\mu$ l 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 $\mu$ l of Random Primer Mix incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 $\mu$ l reaction in NEBuffer 2 containing 1 $\mu$ g of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 5 $\mu$ l 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.	Pass
<b>Endonuclease Activity (Nicking)</b> A 25 $\mu$ l reaction in NEBuffer 2 containing 1 $\mu$ g of supercoiled PhiX174 DNA and a minimum of 5 $\mu$ l 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.	Pass

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



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Christie Vazquez  
Production Scientist  
19 May 2020



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Michael Tonello  
Packaging Quality Control Inspector  
19 May 2020