

## New England Biolabs Certificate of Analysis

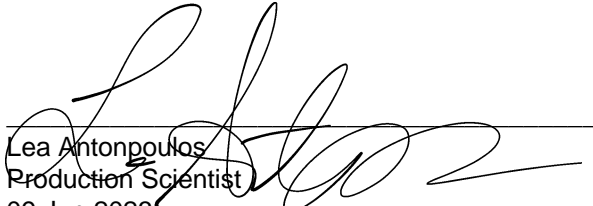
**Product Name:** Random Primer Mix  
**Catalog Number:** S1330S  
**Concentration:** 60  $\mu$ M  
**Packaging Lot Number:** 10218692  
**Expiration Date:** 03/2026  
**Storage Temperature:** -20°C  
**Specification Version:** PS-S1330S v2.0  
**Composition (1X):** 1 mM dATP, 1 mM dCTP, 1 mM dGTP, 1 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	10194850	Pass

Assay Name/Specification	Lot # 10218692
<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
<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>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>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

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

  
Lea Antonopoulos  
Production Scientist  
09 Jun 2023

  
Josh Hersey  
Packaging Quality Control Inspector  
01 Dec 2023