NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*Random Primer Mix*
Catalog Number:	*S1330S*
Concentration:	*60 µM*
Lot Number:	*10045035*
Expiration Date:	*05/2022*
Storage Temperature:	*-20°C*
Specification Version:	*PS-S1330S v1.0*
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	10040033	**Pass**

Assay Name/Specification	**Lot # 10045035**
RNase Activity (Extended Digestion) 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 37ºC. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	**Pass**
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 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.	**Pass**
Non-Specific DNase Activity (16 Hour) 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 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
Endonuclease Activity (Nicking) 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 37ºC results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	**Pass**

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

David Guo
Production Scientist
07 May 2019

Michael Tonello
Packaging Quality Control Inspector
14 May 2019