

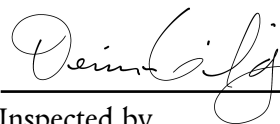
New England Biolabs Certificate of Analysis

Product Name: *Random Primer Mix*
Catalog #: *S1330S*
Concentration: *60 μM*
Lot #: *0081603*
Assay Date: *03/2016*
Expiration Date: *03/2019*
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: *05 May 2016*

Assay Name/Specification (minimum release criteria)	Lot #0081603
<p>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 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass
<p>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 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>Phosphatase Activity (pNPP) - A 200 μl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl₂ 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.</p>	Pass
<p>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 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass



Authorized by
Derek Robinson
05 May 2016



Inspected by
Denisa Gilaj
11 May 2016

