

# Certificate of Analysis

**Product Name:** RNase H, E. coli

**Cat #:** RNHE-100, RNHE-200, RNHE-300, RNHE-OEM

**Lot #:** 20130723

**Assay Conditions:** 1X RNase H Buffer: 50 mM Tris-HCl (pH 8.3), 3 mM MgCl<sub>2</sub>, 10 mM dithiothreitol, 75 mM KCl.

**Quality Control:** Nonspecific Endonuclease/Nickase Activity: Endonuclease/Nickase Activity was undetectable with incubation supercoiled plasmid DNA substrate for 4 hrs at 37°C, analyzed on an agarose gel, compare to benchmark.  
Exonuclease Activity: dsDNA exonuclease activity was undetectable and less than 5% ssDNA exonuclease activity was detected in fluorescence assays, compare to benchmark.  
RNase Activity: The product was tested in a reaction containing a RNA substrate. After incubation for 25 minutes there is undetectable degradation of the RNA substrate as determined by checking OD value.

**Results:** Meets specifications.



7/25/2013

---

**Quality Assurance Manager**

---

**Date**