

**CERTIFICATE OF ANALYSIS**

**Water, nuclease-free,**  
molecular biology grade

**#R0582** 30ml

**Lot:**

**Store at -20°C**

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In total 1 vial(s).

**PRODUCT USE LIMITATION.**

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

***Description***

Water, nuclease-free, is 0.22µm membrane-filtered molecular biology grade water.

***Applications***

For use in all molecular biology experiments.

**QUALITY CONTROL**

***Nicking Activity Assay***

No detectable conversion of covalently closed circular DNA to nicked DNA was observed after incubation of Water, nuclease-free with 1µg of pUC19 DNA in 50µl of reaction buffer (50mM Tris-HCl (pH 7.6), 10mM magnesium chloride, 50mM sodium chloride) for 16 hours at 37°C.

***Labeled Oligonucleotide (LO) Assay***

No detectable degradation of 10pmol single-stranded and 10pmol double-stranded [<sup>32</sup>P] labeled oligonucleotide (17-mer) was observed after incubation for 16 hours in 20µl of Fermentas Tango™, B, Ecl136II, SacI buffers, prepared in Water, nuclease-free at 37°C and 55°C.

***Ribonuclease Assay***

No detectable radioactivity was released into the trichloroacetic acid-soluble fraction after incubation of 1µg of *E.coli* [<sup>3</sup>H]-RNA (40000cpm/µg) in 50µl of reaction buffer (33mM Tris-acetate (pH 7.9), 10mM magnesium acetate, 66mM potassium acetate), prepared in Water, nuclease-free for 4 hours at 37°C.

**Quality authorized by:**



Dalia Cesiuliene