

## PRODUCT INFORMATION

# Water, nuclease-free, molecular biology grade

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Lot: \_ \_

**Store at: from -30°C to 30°C**

In total \_ 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.

Please refer to [www.thermoscientific.com/onebio](http://www.thermoscientific.com/onebio) for Material Safety Data Sheet of the product.

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## Description

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

## Applications

For use in all molecular biology experiments.

## CERTIFICATE OF ANALYSIS

### Nicking Activity Assay

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

### Labeled Oligonucleotide (LO) Assay

No detectable degradation of 10 pmol single-stranded and 10 pmol double-stranded [<sup>32</sup>P] labeled oligonucleotide (17-mer) was observed after incubation for 16 hours in 20 µl of Thermo Scientific 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 1 µg of *E.coli* [<sup>3</sup>H]-RNA (40000cpm/µg) in 50 µl of reaction buffer (33 mM Tris-acetate (pH 7.9), 10 mM magnesium acetate, 66 mM potassium acetate), prepared in Water, nuclease-free for 4 hours at 37°C.

**Quality authorized by:**

 Jurgita Zilinskiene