

CERTIFICATE OF ANALYSIS

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

#R0581 4 x 1.25 ml

Lot:

Store at -20°C

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 0.22 µm 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 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 [³²P] labeled oligonucleotide (17-mer) was observed after incubation for 16 hours in 20 µl 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 1 µg of *E.coli* [³H]-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