

RiboProtect Hu RNase Inhibitor

CERTIFICATE OF ANALYSIS

#RT35	RiboProtect Hu RNase Inhibitor
Batch number:	QAE766275
Expiry Date:	03.2022
Concentration:	40 U/ μ l
Storage conditions:	-20°C in a freezer without a defrost cycle
Shipping conditions:	blue ice
Storage buffer:	20 mM HEPES-KOH; 50 mM KCl; 8 mM reducing agent; 50% (v/v) glycerol; pH 7.6
Unit definition:	One unit is defined as the amount of <i>RiboProtect Hu</i> RNase Inhibitor required to inhibit the activity of 5 ng of ribonuclease A by 50%.
Specification:	<i>RiboProtect Hu</i> RNase Inhibitor is a 50 kDa recombinant human placental protein expressed and purified from <i>Escherichia coli</i> . It inhibits ribonuclease activity of RNase A, RNase B, RNase C by non-covalent binding in a 1:1 ratio. <i>RiboProtect Hu</i> RNase Inhibitor protects RNA in temperatures up to 55°C. <i>RiboProtect Hu</i> RNase Inhibitor is intended for use in applications where the presence of RNases may cause a hazard to RNA quality and experiment results, e.g. in RNA isolation, cDNA synthesis, RT-PCR, <i>in vitro</i> transcription and translation, or RNase-free monoclonal antibody preparation. <i>RiboProtect Hu</i> RNase Inhibitor shows no activity towards RNase 1, T1, T2, S1 nuclease and RNase H.

QUALITY CONTROL

Physical Purity: The purity is >90% as evaluated by SDS-PAGE electrophoresis

RNase Contamination: RNase activity is judged by incubation of 1 µg of RNA with 200 units of *RiboProtect Hu* RNase Inhibitor for 1 hour at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

Result: PASS

Latent RNase Contamination: Latent RNase activity is judged by incubation of 1 µg of RNA with 200 units of heat-inactivated *RiboProtect Hu* RNase Inhibitor for 1 hour at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

Result: PASS

Endonuclease Contamination: Endonuclease activity is judged by incubation of 1 µg of supercoiled plasmid DNA with 200 units of *RiboProtect Hu* RNase Inhibitor for 2 hours at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

Result: PASS

Exonuclease Contamination: Exonuclease activity is judged by incubation of 1 µg of digested plasmid DNA with 200 units of *RiboProtect Hu* RNase Inhibitor for 2 hours at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

Result: PASS

Quality authorized by: Justyna Leibner-Ciszak

Date: 21.07.2020

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