Cat. No.: RT35
Version: 1.2019

RiboProtect Hu RNase Inhibitor

CERTIFICATE OF ANALYSIS

#RT35	***RiboProtect Hu* RNase Inhibitor**
Batch number:	**QAE686075**
Expiry Date:	**04.2022**
Concentration:	40 U/µl
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) glicerol; pH 7.6
Inactivation:	60°C /10 minutes
Unit definition:	One unit is defined as the amount of ***RiboProtect Hu*** RNase Inhibitor required to inhibit the activity of 5 ng of ribonuclease A by 50%.
Specification:	***RiboProtect Hu*** RNase Inhibitor is a 50 kDa recombinant human placental protein expressed and purified from *Escherichia coli*. It inhibits ribonuclease activity of RNase A, RNase B, RNase C by non-covalent binding in a 1:1 ratio. ***RiboProtect Hu*** RNase Inhibitor protects RNA in temperatures up to 55°C. ***RiboProtect Hu*** 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, *in vitro* transcription and translation, or RNase-free monoclonal antibody preparation. ***RiboProtect Hu*** RNase Inhibitor shows no activity towards RNase 1, T1, T2, S1 nuclease and RNase H.

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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: 11.05.2020

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