

RIBOPROTECT Hu RNase Inhibitor Lyo-ready



version: 2.2021

Cat. No.: RT35L

Product Specification

Product name	<i>RIBOPROTECT Hu RNase Inhibitor Lyo-ready</i>
Catalog numbers	RT35L
Source	Human placental protein
Host	<i>Escherichia coli</i>
Concentration	40 U/ μ l
Unit definition	One unit is defined as the amount of <i>RIBOPROTECT Hu RNase Inhibitor</i> required to inhibit the activity of 5 ng of ribonuclease A by 50%.
Components	<i>RIBOPROTECT Hu RNase Inhibitor Lyo-ready</i>
Protein purity	> 90%
Shelf life	12 months
Storage conditions	2-8°C for up to 4 weeks, for a long term storage - 80°C is recommended, up to 3 freeze/thaw cycles is acceptable
Storage buffer	20 mM HEPES-KOH; 50 mM KCl; 8 mM reducing agent; pH 7.6 * Trace amounts of glycerol may be present
Shipping conditions	Blue ice
The product is made in Poland	

QC Assays

Protein Purity Assay: The purity is >90% as evaluated by SDS-PAGE electrophoresis.

RNase Contamination: RNase activity is judged by incubation of 1 μ g of RNA with minimum of 200 U of *RIBOPROTECT Hu RNase Inhibitor Lyo-ready* for 1 hour at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

Latent RNase Contamination: Latent RNase activity is judged by incubation of 1 μ g of RNA with minimum of 200 U of heat-inactivated *RIBOPROTECT Hu RNase Inhibitor Lyo-ready* for 1 hour at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

Endonuclease Contamination: Endonuclease activity is judged by incubation of 1 μ g of supercoiled plasmid DNA with minimum of 200 U of *RIBOPROTECT Hu RNase Inhibitor Lyo-ready* for 2 hours at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

Exonuclease Contamination: Exonuclease activity is judged by incubation of 1 μ g of digested plasmid DNA with minimum of 200 U of *RIBOPROTECT Hu RNase Inhibitor Lyo-ready* for 2 hours at 37°C. Results are visualized on an ethidium bromide-stained agarose gel.

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