Product List / 2021

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Enzymes As You Need

BLIRT S.A.
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Product List / 2021

DNA & RNA ISOLATION KITS

Product Name	Pack Size	Cat. No.	Description
GENOMIC DNA Isolation Kits			
NA AKCIJI ***EXTRACT**ME* **GENOMIC DNA KIT** universal	50 preps	EM13-050	Purification of genomic, mitochondrial, bacterial, parasite or viral DNA from solid tissues, physiological fluids (urine, cerebrospinal fluid, peritoneal fluid, pleural fluid, sputum), fresh and frozen blood, mucosa membrane swabs (including buccal, nasal, pharyngeal and vaginal swabs), semen, hair, rodent tails, insects, bacteria, yeast and cell cultures.
	250 preps	EM13-250	
NA AKCIJI ***EXTRACT**ME* **DNA TISSUE KIT**	50 preps	EM03-050	Purification of high quality DNA from solid tissues (fresh, frozen, formalin-preserved or paraffin-embedded), physiological fluids, hair, rodent tails, insects and cell cultures.
	250 preps	EM03-250	
***EXTRACT**ME* **DNA BLOOD KIT**	50 preps	EM05-050	Purification of high quality (genomic, mitochondrial and viral) DNA from whole blood (fresh or frozen, human or other mammalian), plasma, serum, buffy coats, lymphocytes and body fluids.
	250 preps	EM05-250	
***EXTRACT**ME* **DNA SWAB & SEMEN KIT**	50 preps	EM06-050	Purification of high quality DNA from human and animal mucosa membrane swabs (including buccal, nasal, pharyngeal and vaginal swabs) as well as from semen.
	250 preps	EM06-250	

RNA Isolation Kits

Product Name	Pack Size	Cat. No.	Description
NEW *EXTRACTME* VIRAL RNA KIT	50 preps	EM39-050	Rapid and efficient purification of high-quality viral RNA from swabs. The kit is specifically designed to isolate viral nucleic acid from a variety of RNA viruses. The isolation protocol and buffer formulation were optimized for high isolation efficiency and RNA purity. RNA binding capacity: ~120 µg. Purified RNA is eluted with the use of low ionic strength buffer and may be used directly in all downstream applications, such as RT-PCR, RT-qPCR, cDNA synthesis.
	250 preps	EM39-250	
NA AKCIJI *EXTRACTME* TOTAL RNA KIT	50 preps	EM09.2-050	Improved kit for rapid, efficient purification of high quality total RNA from up to 30 mg of tissue (fresh or frozen), or up to 10^7 cultured cells. RNA binding capacity: ~230 µg. Significantly improved RNA yields and shortened processing time.
	250 preps	EM09.2-250	
EXTRACTME miRNA KIT	50 preps	EM12-050	For rapid, phenol-free extraction of RNA highly enriched in short RNA strands (< 200 nt). Superior yields and purity. Suitable for wide range of cells, tissues (including blood). This kit also allows parallel extraction of high quality long RNA strands (> 200 nt) from the same sample. The kit contains three different types of columns: first one for DNA removal, second one for purification of long RNA, and third one for purification of short RNA.
	250 preps	EM12-250	
EXTRACTME RNA & DNA KIT	50 preps	EM15-050	Rapid, simultaneous isolation of high quality genomic DNA and total RNA from a single biological sample, from up to 30 mg of tissue or up to 10^7 cultured cells. This kit is ideal for researchers interested in studying the genome and the transcriptome of a single sample.
	250 preps	EM15-250	
EXTRACTME TOTAL RNA MICRO SPIN KIT	50 preps	EM31.1-050	Rapid and efficient purification and concentration of high quality RNA from tissue or cultured cells in a micro-spin column format (elution volume from 5 µl).
	250 preps	EM31.1-050	
NA AKCIJI *EXTRAZOL*	200 ml	EM30-200	Ready-to-use reagent for the isolation of separate fractions of RNA, DNA and proteins from cell and tissue samples of human, animal, plant, yeast, or bacterial origin, within one hour.
Bead-beating Tubes with ceramic filling	100 pcs	HPLM100 / HPLM100A	2 ml bead-beating tubes with 1 g ceramic filling (1.4 mm) for soft tissue homogenization; Lysing Matrix D equivalent. Two different tube shapes that will fit to any bead-beater.
	500 pcs	HPLM500 / HPLM 500A	

Product Name	Pack Size	Cat. No.	Description
PLASMID DNA Isolation Kits			
***EXTRACT**ME* PLASMID MINI KIT	50 preps	EM01.1-050	Mini-scale extraction of plasmid DNA from broth culture or frozen cell pellets of recombinant *Escherichia coli* strains. Higher yields – column binding capacity 60 µg pDNA; one protocol for high/low copy plasmids.
	250 preps	EM01.1-250	
***EXTRACT**ME* PLASMID MIDI KIT	10 preps	EM16-010	Ultrapure, transfection-grade plasmid DNA isolation in medium scale (50–300 ml of bacterial culture); yield: 200–600 µg DNA from 100 ml culture; isolation time: 120–130 minutes (with DNA precipitation); centrifugation steps: 6000 x g (no need to have ultracentrifuge).
	25 preps	EM16-025	
***EXTRACT**ME* PLASMID MAXI KIT	10 preps	EM18-010	Ultrapure, transfection-grade plasmid DNA isolation in large scale (200–1000 ml of bacterial culture); yield: 1–1.5 mg DNA from 400 ml culture; isolation time: 140–150 minutes (with DNA precipitation); centrifugation steps: 6000 x g (no need to have ultracentrifuge).
	25 preps	EM18-025	

Product Name	Pack Size	Cat. No.	Description
DNA Fragments Purification Kits			
NA AKCIJI ***EXTRACTME*** **DNA CLEAN-UP KIT**	50 preps	EM07.1-050	New upgraded kit for DNA purification after enzymatic reactions; the kit enables the purification of DNA fragments from 50 bp to 20 kb, as well as plasmid and genomic DNA; significall improved recovery: up to 99% (depending on DNA fragment length); binding capacity: approx. 40 µg DNA; time required: 10 min for 6 PCR purifications.
	250 preps	EM07.1-250	
NA AKCIJI ***EXTRACTME*** **DNA CLEAN-UP & GEL-OUT KIT**	50 preps	EM26.1-050	DNA purification after enzymatic reactions & DNA fragments isolation directly from agarose gels – two options in one kit.
	250 preps	EM26.1-250	

Product Name	Pack Size	Cat. No.	Description
Mini Spin Columns			
DNA CLEAN-UP mini spin columns	50 pcs	EM07.1C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM07.1 kit.
DNA GEL-OUT mini spin columns	50 pcs	EM08C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM26.1 kits.
PLASMID DNA mini spin columns	50 pcs	EM01.1C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM01.1 kit.
SWAB & SEMEN DNA mini spin columns	50 pcs	EM06C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM06 kit.
GENOMIC DNA mini spin columns	50 pcs	EM13C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM03, EM05, EM13 kits.
TOTAL RNA mini spin columns	50 pcs	EM09.1C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM09.1 and EM15 kits.
miRNA mini spin columns	50 pcs	EM12C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM12 kit.
MICRO SPIN columns	50 pcs	EM28C-050	Micro spin columns with silica resin with 2 ml receiving tubes used in used in EM31 kits.

REAL-TIME PCR MASTER MIXES

Product Name	Pack Size	Cat. No.	Description
AMPLIFYME **SG No-ROX Mix**	200 rxns	AM01-020	The *AMPLIFYME* SG No-ROX Mix is a convenient enzyme mixture for fast and reliable quantitative Real-Time PCR, using SG dsDNA-binding dye. Compatible with qPCR instruments that don't need ROX dye.
	2000 rxns	AM01-200	
NA AKCIJI ***AMPLIFYME*** **SG Universal Mix**	200 rxns	AM02-020	The *AMPLIFYME* SG Universal Mix is a convenient enzyme mixture for fast and reliable quantitative Real-Time PCR, using SG dsDNA-binding dye. Compatible with all types of qPCR instruments. Additional tubes with low and high concentration of ROX are included.
	2000 rxns	AM02-200	
AMPLIFYME **Probe No-ROX Mix**	200 rxns	AM04-020	Convenient enzyme mixture for fast and reliable qPCR using probes, including TaqMan®, Scorpions® and molecular beacon probes. It is the best choice for your probe based Real-Time PCR assays, including singleplex and multiplex gene expression studies, genotyping experiments or diagnostic assays. Compatible with qPCR instruments that don't need ROX dye.
	2000 rxns	AM04-200	
NA AKCIJI ***AMPLIFYME*** **Probe Universal Mix**	200 rxns	AM05-020	The *AMPLIFYME* Probe Universal Mix is a convenient enzyme mixture for fast and reliable qPCR using probes, including TaqMan®, Scorpions® and molecular beacon probes. It is the best choice for your probe based Real-Time PCR assays, including singleplex and multiplex gene expression studies, genotyping experiments or diagnostic assays. Universal – compatible with all types of qPCR instruments. Additional tubes with low and high concentration of ROX are included.
	2000 rxns	AM05-200	

One-Step

AMPLIFYME **Probe One-Step No-ROX RT-qPCR Mix**	100 rxns	AM08.1-100	Ready-to-use, 2x concentrated Mix contains all ingredients necessary for Real-Time PCR based on probe detection technology: hot-start *Taq* polymerase, dNTPs, specially developed buffer, stabilizers and enhancers. Additionally, Mu-MLV Reverse Transcriptase and RNase Inhibitor are included in separate tubes.
	500 rxns	AM08.1-500	
AMPLIFYME **Probe One-Step Universal RT-qPCR Mix**	100 rxns	AM09.1-100	Ready-to-use, 2x concentrated Mix contains all ingredients necessary for Real-Time PCR based on probe detection technology: hot-start *Taq* polymerase, dNTPs, specially developed buffer, stabilizers and enhancers. Additionally, Mu-MLV Reverse Transcriptase and RNase Inhibitor and ROX solution are included in separate tubes.
	500 rxns	AM09.1-500	

PCR REAGENTS

Product Name	Pack Size	Cat. No.	Description
Thermostable DNA polymerases from *Thermus aquaticus* (*Taq* Polymerases)			
TaqNova **DNA Polymerase**	200 U (5 U/µl)	RP702A	*Taq* DNA Polymerase suited to a wide range of applications, fast and very efficient; universal and easy-to-use; half-life of the enzyme is 45 minutes at 95°C; shows 5′→3′ exonuclease activity; does not have 3′→5′ exonuclease activity; adds A on the 3′ ends.
	500 U (5 U/µl)	RP705A	
	1000 U (5 U/µl)	RP710A	
	2500 U (5 U/µl)	RP725A	
TaqNova **DNA-free Polymerase**	200 U (5 U/µl)	RP1002	*TaqNova* DNA-free Polymerase is a 94 kDa recombinant, thermostable Taq DNA polymerase isolated from *Thermus aquaticus*. It is recommended for a wide range of applications which require DNA synthesis at extremely high temperatures. *TaqNova* DNA-free Polymerase is an universal and easy-to-use DNA polymerase that works rapidly and effectively in various PCR conditions. It is highly purified from DNA contaminants (≤ 1 *E. coli* genome in 1 U of enzyme), enabling amplification of very conserved sequences (e.g. bacterial 16S rRNA region) without risk of false positive PCR results. The enzyme catalyzes DNA synthesis in a 5′→3′ direction, shows no 3′→5′ exonuclease activity, but has a 5′→3′ exonuclease activity.
	1000 U (5 U/µl)	RP1010	
	100 U/µl	RP1000HC (upon request)	
NA AKCIJI **2x PCR *TaqNova*-RED**	100 rxns (50 µl)	RP85T	2x concentrated, ready-to-use PCR master mix with *TaqNova* polymerase, that facilitates an easy and rapid PCR reaction set-up.
	1000 rxns (50 µl)	RP85T-10	
TaqNovaHS **DNA Polymerase**	200 U (5 U/µl)	RP902A	Mixture of thermostable *Taq* DNA polymerase and a highly specific monoclonal antibody, that acts as an inhibitor of the polymerization activity (for Hot-Start PCR technique); high PCR specificity with minimal optimization; fast 2-minutes enzyme activation time; very efficient.
	500 U (5 U/µl)	RP905A	
	1000 U (5 U/µl)	RP910A	
	2500 U (5 U/µl)	RP925A	
TaqNova Stoffel **DNA Polymerase**	1000 U (2 U/µl)	RP810	Highly active *Taq* DNA polymerase without 5′→3′ exonuclease activity. *TaqNova* Stoffel DNA Polymerase works optimally at a broader range of $MgCl_2$ concentration (2–10 mM) as compared to *Taq* DNA polymerase – easier and faster optimization. It is also useful for multiplex reactions. In special applications *TaqNova* Stoffel DNA Polymerase has proven better specificity than regular *Taq* DNA polymerase. It is especially recommended for amplifications of small fragments from gDNA. The absence of the 5′→3′ exonuclease activity makes it very suitable for cycle sequencing. It gives higher sequence intensity and low background.

Product Name	Pack Size	Cat. No.	Description
PCR Enhancers			
PCR Anty-inhibitor	100 rxns	RP50	PCR additive used for elimination of PCR inhibitors coextracted with DNA; amplification of problematic templates, isolated from: urine, stool, saliva, sputum, blood, swabs, biopsy materials etc.
	500 rxns	RP51	
Deoxyribonucleotides (dNTPs)			
dNTPs MIX 10 mM Total	1 ml	RP63	Deoxyribonucleotides Mix (2.5 mM dATP, 2.5 mM dCTP, 2.5 mM dGTP, 2.5 mM dTTP); ultra-pure; supplied as lithium salts (greater stability).
dNTPs MIX 40 mM Total	1 ml	RP64	Deoxyribonucleotides Mix (10 mM dATP, 10 mM dCTP, 10 mM dGTP, 10 mM dTTP); ultra-pure; supplied as lithium salts (greater stability).
dNTPs MIX 100 mM Total	1 ml	RP65	Deoxyribonucleotides Mix (25 mM dATP, 25 mM dCTP, 25 mM dGTP, 25 mM dTTP); ultra-pure; supplied as lithium salts (greater stability).

REVERSE TRANSCRIPTION

Product Name	Pack Size	Cat. No.	Description
NA AKCIJI ***TRANSCRIPTME*** **RNA KIT cDNA synthesis kit**	20 rxns	RT31-020	10 pg – 5 µg of total RNA; optimal reaction temp. 50°C; contains Enzyme Mix (Reverse Transcriptase and RNase Inhibitor); 2x Master Mix (oligo(dT) primers, random hexamers, dNTPs, $MgCl_2$) and RNase H.
	100 rxns	RT31-100	
TRANSCRIPTME **M-MuLV Reverse Transcriptase**	10 000 U (200 U/µl)	RT32-010	Modified M-MuLV Reverse Transcriptase; 10 pg – 5 µg of total RNA; has increased thermal stability (optimum activity at 50°C); has no 3'→5' exonuclease and reduced RNase H activity, which improves the synthesis of a full-length cDNA, even from long mRNA templates, using random priming; gives high yields of first strand cDNA up to 10 kb long.
	50 000 U (200 U/µl)	RT32-050	
NEW ***TRANSCRIPTME*** **LYO M-MuLV Reverse Transcriptase**	100 000 U	RT32L-100	Lyophilized version of M-MuLV Reverse Transcriptase; increased thermal stability, that allows the reaction to be carried out at a higher temperature (optimum activity at 50°C); has no 3'→5' exonuclease or RNase H activity, which improves the synthesis of a full-length cDNA, even from long mRNA templates, using random priming; gives high yields of first strand cDNA up to 7 kb long.
RNase H	250 U (5 U/µl)	RT34-025	RNase H is a 18.9 kDa recombinant endoribonuclease, which hydrolyses specifically the phosphodiester bonds of RNA hybridized to DNA.The enzymes does not degrade single and double-stranded DNA or unhybridized RNA. It is a key enzyme in the removal of mRNA after first-strand cDNA synthesis. Treating cDNA with RNase H prior to PCR can improve sensitivity as RNA bonded to the cDNA template may prevent binding of the amplification primers in a PCR reaction.
	1250 U (5 U/µl)	RT34-125	
RIBOPROTECT ***Hu*** **RNase Inhibitor** IMPROVED STABILITY!	2000 U (40 U/µl)	RT35-020	***RIBO****PROTECT Hu* RNase Inhibitor is a 50 kDa recombinant human placental protein expressed in *Escherichia coli*. It inhibits ribonuclease (RNase) activity of common eukaryotic enzymes such as RNase A, RNase B, RNase C. ***RIBO****PROTECT Hu* 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. Stable up to 58°C and at min. 0.5 – 1 mM DTT concentration ranges.
	10 000 U (40 U/µl)	RT35-100	
NEW ***RIBOPROTECT*** ***Hu*** **RNase Inhibitor Lyo-ready**	10 000 U (40 U/µl)	RT35L-010	Formulation of ***RIBO****PROTECT Hu* Lyo-ready RNase Inhibitor (glycerol-free) enables its usage directly in the lyophilization process. ***RIBO****PROTECT Hu* Lyo-ready is recombinant human placental RNase inhibitor expressed in *E. coli* strain that completely inhibits RNase A, B, and C activity. Stable at least 4 weeks at 37°C; up to 3 freeze/thaw cycles acceptable.
		RT35L-B (bulk)	

ENZYMES & PROTEINS

Product Name	Form	Pack Size	Cat. No.	Description
Proteinase K				
NA AKCIJI MBG	Powder	100 mg	RP100B	Recombinant Proteinase K from *Tritirachium album* expressed in *Pichia pastoris* is a broad spectrum serine protease. Our recombinant Proteinase K is extensively purified to give highly active preparation devoid of any detectable nuclease activities. It is widely used for digestion of proteins, including DNases and RNases during nucleic acid preparations without compromising the integrity of the isolated DNA or RNA. Proteinase K is fully active under denaturing conditions (e.g. in the presence of urea and/or SDS), what makes it ideal for digesting proteins in variety of applications. Solubility in water ≥20 mg/ml; Activity ≥ 30 U/mg lyophilizate ; Specific activity ≥ 40 U/mg protein; ≥ 800 U/ml liquid; DNA content ≤ 10 pg/mg.
		250 mg	RP101B	
		1000 mg	RP102B	
		bulk	RP103B	
	Cake	on request	RP103B-C	
	Solution	1 ml (20 mg/ml)	RP107B-1	
		5 ml (20 mg/ml)	RP107B-5	
		bulk	RP107B	
NGS	Powder	100 mg	RP100N	Proteinase K NGS Grade is developed for most demanding applications. Additional purification technology results in its significantly increased solubility (≥ 50 mg/ml), increased specific activity (≥ 35 U/mg lyophilizate; ≥ 45U/mg protein) and remarkable purity with DNA content ≤0.1 pg/mg. Free of exonucleases, endonucleasesand ribonucleases.
		250 mg	RP101N	
		1 g	RP102N	
		bulk	RP103N	

Nucleases

Product Name	Pack Size	Cat. No.	Description
Saltonase (HL-Nuclease)	5000 U (20 U/µl)	EN32-050	Saltonase is a cold-active, heat-labile recombinant endonuclease produced in *E.coli*. Saltonase originates from psychrophilic bacteria and effectively digests all types of DNA and RNA substrates in different buffer conditions and a broad range of temperatures. It is very active in demanding conditions, including low temperatures and environment with high salt content. These features make Saltonase extremely useful for removing undesired nucleic acids contamination during purification of proteins in laboratory and manufacturing workflows.
	25 000 U (20 U/µl)	EN32-250	
Masterase (HL-dsDNase)	500 U (2 U/µl)	EN31-005	Masterase is a 43.3 kDa heat-labile recombinant endonuclease, derived from a cold water eukaryotic organism, expressed in *Pichia pastoris*. The enzyme displays high specific activity towards double-stranded DNA leaving single-stranded DNA or RNA undamaged in standard conditions. Masterase can be easily inactivated by heat treatment in moderate temperatures. It is intended for applications where the presence of dsDNA influences experiments' results in thermo-sensitive applications. The enzyme hydrolyzes phosphodiester linkages yielding oligonucleotides with a 5'-phosphate and a 3'-hydroxyl groups.
	2500 U (2 U/µl)	EN31-025	
DNaseMe (dsDNase)	5000 U (20 U/µl)	EN33-050	DNaseMe is a 42.8 kDa recombinant endonuclease, derived from marine amphipods, expressed in *Pichia pastoris*. The enzyme displays high specific activity towards double-stranded DNA leaving single-stranded DNA or RNA undamaged in standard conditions. DNaseMe is highly active in a broad spectrum of temperatures, buffer conditions and pH. The specific activity is similar to bovine DNase I however, DNaseMe is characterized by higher stability in demanding reaction and storage conditions (e.g. high salt and detergent containing buffers, elevated temperature). These features make DNaseMe extremely useful for rapid and "RNA safe" degradation of genomic DNA, where absence of ribonucleases is critical to maintain the integrity of RNA. The enzyme hydrolyzes phosphodiester linkages yielding oligonucleotides with a 5'-phosphate and a 3'-hydroxyl groups.
	25 000 U (20 U/µl)	EN33-250	
RNase A (DNase-free)	50 mg	RP145	The Ribonuclease A is a 13.7 kDa (monomer) endoribonuclease isolated from bovine pancreas, which selectively cleaves single-stranded RNA 3' next to pyrimidine residues (cytosine, uracil). The RNase A is used to remove RNA during the isolation procedures of plasmid and genomic DNA. The enzyme is very active under a wide range of reaction conditions and difficult to inactivate.
RNase H	250 U (5 U/µl)	RT34-025	RNase H is a 18.9 kDa recombinant endoribonuclease, which hydrolyses specifically the phosphodiester bonds of RNA hybridized to DNA. The enzymes does not degrade single and double-stranded DNA or unhybridized RNA. It is a key enzyme in the removal of mRNA after first-strand cDNA synthesis. Treating cDNA with RNase H prior to PCR can improve sensitivity as RNA bonded to the cDNA template may prevent binding of the amplification primers in a PCR reaction.
	1250 U (5 U/µl)	RT34-125	

Other Enzymes & Proteins

Product Name	Pack Size	Cat. No.	Description
T4 DNA Ligase	500 U	EN11-050	ATP-dependent recombinant enzyme used for molecular cloning, site-directed mutagenesis, nick repair in duplex DNA, RNA or DNA/RNA hybrids, Ligation Mediated PCR; concentration 5 U/µl; Weiss U.
	2500 U	EN11-250	
Quick Ligase	50 rxns	EN12-050	ATP-dependent recombinant T4 DNA ligase for efficient ligation of DNA fragments with compatible cohesive or blunt ends in 5 and 15 minutes respectively. PEG included.
	150 rxns	EN12-150	
Tth DNA Ligase	250 U (3750 CEU) (5 U/µl)	EN13-025	NAD-dependent recombinant ligase from *Thermus thermophilus*. The ligation will occur only if oligonucleotides are perfectly paired to the complementary target DNA and have no gaps between them. Therefore, a single-base substitution can be detected. High thermostability allows ligation using high-stringency hybridization conditions. High specificity and stringency permits sensitive detection of SNPs. Equivalent of Amplligase® (Epicentre).
	2500 U (37 500 CEU) (5 U/µl)	EN13-250	
UDGase	500 U	EN19-050	Uracil DNA Glycosylase (UDG) catalyzes the release of uracil from uracil-containing single-stranded or double-stranded DNA, but not from RNA or oligonucleotides. Widely used to control carry-over contamination in PCR; concentration 1 U/µl.
	2500 U	EN19-250	
phi29 DNA Polymerase	1000 U (10 U/µl)	EN20-010	Very processive polymerase (up to 70 kb) with strong strand displacement activity, which allows for highly efficient isothermal DNA amplification; possesses a 3'→5' exonuclease (proofreading) activity acting preferentially on ssDNA or RNA, therefore 3'-modified primers are recommended.
	5000 U (10 U/µl)	EN20-050	
***TRANSCRIPTME* M-MuLV Reverse Transcriptase**	10 000 U (200 U/µl)	RT32-010	Modified M-MuLV Reverse Transcriptase; 10 pg – 5 µg of total RNA; concentration 200 U/µl; has increased thermal stability (optimum activity at 50°C); has no 3'→5' exonuclease and reduced RNase H activity, which improves the synthesis of a full-length cDNA, even from long mRNA templates, using random priming; gives high yields of first strand cDNA up to 10 kb long.
	50 000 U (200 U/µl)	RT32-050	
NEW ***TRANSCRIPTME* LYO M-MuLV Reverse Transcriptase**	100 000 U	RT32L-100	Lyophilized version of M-MuLV Reverse Transcriptase; increased thermal stability, that allows the reaction to be carried out at a higher temperature (optimum activity at 50°C); has no 3'→5' exonuclease or RNase H activity, which improves the synthesis of a full-length cDNA, even from long mRNA templates, using random priming; gives high yields of first strand cDNA up to 7 kb long.

Other Enzymes & Proteins

Product Name	Pack Size	Cat. No.	Description
***RIBO**PROTECT* Hu RNase Inhibitor IMPROVED STABILITY!	2000 U (40 U/µl)	RT35-020	***RIBO**PROTECT Hu* RNase Inhibitor is a 50 kDa recombinant human placental protein expressed in *Escherichia coli*. It inhibits ribonuclease (RNase) activity of common eukaryotic enzymes such as RNase A, RNase B, RNase C. ***RIBO**PROTECT Hu* 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. Stable up to 58°C and at min. 0.5 – 1 mM DTT concentration ranges.
	10 000 U (40 U/µl)	RT35-100	
NEW ***RIBO**PROTECT* Hu RNase Inhibitor Lyo-ready	10 000 U (40 U/µl)	RT35L-010	Formulation of ***RIBO**PROTECT Hu* Lyo-ready RNase Inhibitor (glycerol-free) enables its usage directly in the lyophilization process. ***RIBO**PROTECT Hu* Lyo-ready is recombinant human placental RNase inhibitor expressed in *E. coli* strain that completely inhibits RNase A, B, and C activity. Stable at least 4 weeks at 37°C; up to 3 freeze/thaw cycles acceptable.
		RT35L-B (bulk)	

NOTES

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