Product List / 2021



Enzymes As You Need

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$\mathbf{DNA}\,\varTheta\,\mathbf{RNA}$ isolation kits

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

| Product Name | Pack Size | Cat. No. | Description |
|--------------------------|-----------|------------------------|--|
| RNA Isolation Kits | | | |
| EXTRACT ME | 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 |
| VIRAL RNA KIT | 250 preps | EM39-250 | 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. |
| EXTRACTME | 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 |
| TOTAL RNA KIT | 250 preps | EM09.2-250 | binding capacity: ~230 µg. Significantly improved RNA yields and shortened processing time. |
| 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 par- allel extraction of high quality long RNA strands |
| | 250 preps | EM12-250 | (> 200 nt) from the same sample. The kit contains three different types of columns: first one for DN/ removal, second one for purification of long RNA and third one for purification of short RNA. |
| EXTRACT ME | 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 |
| RNA & DNA KIT | 250 preps | EM15-250 | 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. |
| EXTRACT ME | 50 preps | EM31.1-050 | Rapid and efficient purification and concentration of high quality RNA from tissue or cultured cells |
| TOTAL RNA MICRO SPIN KIT | 250 preps | EM31.1-050 | in a micro-spin column format (elution volume from 5 μl). |
| 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 of bacterial origin within one hour. |
| Bead-beating tubes | 100 pcs | HPLM100 / HPLM100A | 2 ml bead-beating tubes with 1 g ceramic filling (1.4 mm) for soft tissue homogenization; |
| with ceramic filling | 500 pcs | HPLM500 / HPLM 500A | Lysing Matrix D equivalent. Two different tube shapes that will fit to any bead-beater. |



| Product Name | Pack Size | Cat. No. | Description | | |
|--------------------------------------|----------------------------|------------|---|--|--|
| PLASMID DNA Isolation | PLASMID DNA Isolation Kits | | | | |
| <i>EXTRACTME</i> PLASMID MINI KIT | 50 preps | EM01.1-050 | Mini-scale extraction of plasmid DNA from broth culture or frozen cell pellets of recombinant Cacherine division division with the science of the science | | |
| | 250 preps | EM01.1-250 | Escherichia coli strains. Higher yields – column binding capacity 60 µg pDNA; one protocol for high/low copy plasmids. | | |
| EXTRACTME 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 | | |
| | 25 preps | EM16-025 | 100 ml culture; isolation time: 120–130 minu (with DNA precipitation); centrifugation ste 6000 x g (no need to have ultracentrifuge). | | |
| EXTRACTME 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; | | |
| | 25 preps | EM18-025 | isolation time: 140–150 minutes (with DNA precipitation); centrifugation steps: 6000 x g (no need to have ultracentrifuge). | | |

| Product Name | Pack Size | Cat. No. | Description |
|---|------------|------------|---|
| DNA Fragments Purific | ation Kits | | |
| <i>EXTRACTME</i> DNA CLEAN-UP KIT | 50 preps | EM07.1-050 | 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 |
| | 250 preps | EM07.1-250 | to 99% (depending on DNA fragment length); binding capacity: approx. 40 µg DNA; time required: 10 min for 6 PCR purifications. |
| EXTRACTME DNA CLEAN-UP & GEL-OUT KIT | 50 preps | EM26.1-050 | DNA purification after enzymatic reactions & DNA fragments isolation directly from agarose gels – |
| | 250 preps | EM26.1-250 | two options in one kit. |



| 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 kit. |
| 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 EM09.2 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 EM31.1 kit. |

REAL-TIME PCR MASTER MIXES

| Product Name | Pack Size | Cat. No. | Description |
|--|-----------|------------|---|
| AMPLIFYME | 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. |
| SG No-ROX Mix | 2000 rxns | AM01-200 | Compatible with qPCR instruments that don't need ROX dye. |
| AMPLIFY ME | 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. |
| SG Universal Mix | 2000 rxns | AM02-200 | Compatible with all types of qPCR instruments. Additional tubes with low and high concentration of ROX are included. |
| AMPLIFY ME | 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 |
| Probe No-ROX Mix | 2000 rxns | AM04-200 | singleplex and multiplex gene expression studies, genotyping experiments or diagnostic assays. Compatible with qPCR instruments that don't need ROX dye. |
| AMPLIFYMF | 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 |
| Probe Universal Mix | 2000 rxns | AM05-200 | 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. |
| One-Step | | | |
| AMPLIFYME Probe One-Step | 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 <i>Taq</i> polymerase, dNTPs, specially developed buffer, |
| No-ROX RT-qPCR Mix | 500 rxns | AM08.1-500 | stabilizers and enhancers. Additionally, M-MuLV Reverse Transcriptase and RNase Inhibitor are included in separate tubes. |
| 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 <i>Taq</i> polymerase, dNTPs, specially developed buffer, |
| | 500 rxns | AM09.1-500 | stabilizers and enhancers. Additionally, M-MuLV Reverse Transcriptase, RNase Inhibitor and ROX solution are included in separate tubes. |

PCR REAGENTS

| Product Name | Pack Size | Cat. No. | Description | | | |
|--|--|----------------------------|---|--|--|--|
| Thermostable D | Thermostable DNA polymerases from <i>Thermus aquaticus</i> (<i>Taq</i> Polymerases) | | | | | |
| | 200 U (5 U/µl) | RP702A | Tag DNA Polymerase suited to a wide range of | | | |
| TaqNova | 500 U (5 U/µl) | RP705A | applications, fast and very efficient; universal and easy-to-use; half-life of the enzyme is 45 minutes | | | |
| DNA Polymerase | 1000 U (5 U/µl) | RP710A | at 95°C; shows $5' \rightarrow 3'$ exonuclease activity; does not have $3' \rightarrow 5'$ exonuclease activity; adds A on | | | |
| | 2500 U (5 U/µl) | RP725A | the 3' ends. | | | |
| | 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. | | | |
| <i>TaqNova</i> DNA-free Polymerase | 1000 U (5 U/µl) | RP1010 | 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 <i>E. coli</i> genome in 1 U of enzyme), enabling amplification of very | | | |
| | 100 U/µl | RP1000HC (upon request) | conserved sequences (e.g. bacterial 165 rRNA region) without risk of false positive PCR results. The enzyme catalyzes DNA synthesis in a 5' \rightarrow 3' direction, shows no 3' \rightarrow 5' exonuclease activity, but has a 5' \rightarrow 3' exonuclease activity. | | | |
| 2x PCR | 100 rxns (50 µl) | RP85T | 2x concentrated, ready-to-use PCR master mix with | | | |
| TaqNova-RED | 1000 rxns (50 μl) | RP85T-10 | TaqNova polymerase, that facilitates an easy and rapid PCR reaction set-up. | | | |
| | 200 U (5 U/µl) | RP902A | — Mixture of thermostable <i>Taq</i> DNA polymerase | | | |
| TaqNovaHS | 500 U (5 U/μl) | RP905A | and a highly specific monoclonal antibody, that acts as an inhibitor of the polymerization activity | | | |
| DNA Polymerase | 1000 U (5 U/µl) | RP910A | (for Hot-Start PCR technique); high PCR specificity with minimal optimization; fast 2-minutes enzyme | | | |
| | 2500 U (5 U/µl) | RP925A | activation time; very efficient. | | | |
| <i>TaqNova Stoffel</i> DNA Polymerase | 1000 U (2 U/µl) | RP810 | Highly active Taq DNA polymerase without $5' \rightarrow 3'$ exonuclease activity. TaqNova Stoffel DNA Polymerase works optimally at a broader range of MgCl, 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' 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 | | | |
| | 100 rxns | RP50 | PCR additive used for elimination of PCR inhibitors coextracted with DNA; |
| PCR Anti-inhibitor | 500 rxns | RP51 | amplification of problematic templates, isolated from: urine, stool, saliva, sputum, blood, swabs, biopsy materials etc. |
| Deoxyribonucleotides (dN | TPs) | | |
| 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 |
|--|------------------------|-------------------|---|
| TRANSCRIPTME RNA KIT cDNA | 20 rxns | RT31-020 | 10 pg – 5 µg of total RNA; optimal reaction temp. 50°С; contains Enzyme Mix (Reverse Transcriptase and RNase |
| synthesis kit | 100 rxns | RT31-100 | Inhibitor); $2x$ Master Mix (oligo(dT) primers, random hexamers, dNTPs, MgCl ₂) and RNase H. |
| TRANSCRIPTME | 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 |
| Reverse Transcriptase | 50 000 U (200 U/μl) | RT32-050 | 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. |
| V TRANSCRIPTME LYO 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 (optimun activity at 50°C); has no $3' \rightarrow 5'$ 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. |
| | 250 U (5 U/μl) | RT34-025 | RNase H is a 18.9 kDa recombinant endoribonuclease which hydrolyses specifically the phosphodieste bonds of RNA hybridized to DNA.The enzymes doe: not degrade single and double-stranded DNA or unhy |
| RNase H | 1250 U (5 U/μl) | RT34-125 | bridized 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 o the amplification primers in a PCR reaction. |
| | 2000 U (40 U/μl) | RT35-020 | RIBO PROTECT Hu RNase Inhibitor is a 50 kDa recombi nant human placental protein expressed in <i>Escherichi</i> <i>coli</i> . It inhibits ribonuclease (RNase) activity of commor |
| RIBOPROTECT Hu RNase Inhibitor IMPROVED STABILITY! | 10 000 U (40 U/µl) | RT35-100 | eukaryotic enzymes such as RNase A, RNase B, RNase C <i>RIBOPROTECT Hu</i> is intended for use in applications where the presence of RNases may cause a hazard tc RNA quality and experiment results, e.g. in RNA iso- lation, cDNA synthesis, RT-PCR, in vitro transcriptior |
| | 40 U/µl | RT35-B (bulk) | and translation, or RNase-free monoclonal antibody preparation. Stable up to 58°C and at min. 0.5 – 1 mM DTT concentration ranges. |
| RIBO PROTECT Hu RNase Inhibitor | 10 000 U (40 U/µl) | RT35L-010 | Formulation of RIBO PROTECT Hu RNase Inhibito Lyo-ready (glycerol-free) enables its usage directly ir the lyophilization process. RIBO PROTECT Hu Lyo-ready is recombinant human placental RNase inhibito |
| Lyo-ready | 40 U/µl | RT35L-B (bulk) | expressed in <i>E. coli</i> 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. |

ENZYMES & PROTEINS

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



| Product Name | Pack Size | Cat. No. | Description |
|---------------------------|-----------------------|---|---|
| Nucleases | | | |
| Saltonase | 5000 U (20 U/μl) | EN32-050 | Saltonase is a cold-active, heat-labile recombinant endonuclease produced in <i>E.coli</i> . 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 |
| (HL-Nuclease) | 25 000 U (20 U/μl) | EN32-250 | 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. |
| Martana | 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 <i>Pichia pastoris</i> . The enzyme displays high specific activity towards double-stranded DNA leaving single-stranded DNA or RNA undamaged in |
| Masterase (HL-dsDNase) | 2500 U (2 U/μl) | EN31-025 | 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. |
| DNaseMe | 5000 Ս (20 Ս/µl) | EN33-050 | DNaseMe is a 42.8 kDa recombinant endonuclease, derived from marine amphipods, expressed in <i>Pichia</i> 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 |
| (dsDNase) | 25 000 U (20 U/µl) | EN33-250 | 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. |
| RNase A (DNase-free) | 50 mg | RP145 | The Ribonuclease A is a 13.7 kDa (monomer) endoribo- nuclease 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. |
| (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 | |
| RNase H | 1250 U (5 U/μl) | RT34-125 | 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. |

| Product Name | Pack Size | Cat. No. | Description |
|--|------------------------------------|-----------|--|
| Other Enzymes & P | roteins | | |
| 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 Ampligase® (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'-mod- ified primers are recommended. |
| | 5000 U (10 U/μl) | EN20-050 | |
| <i>TRANSCRIPTME</i> Reverse Transcriptase | 10 000 U (200 U/µl) | RT32-010 | Modified M-MuLV Reverse Transcriptase; 10 pg – 5 μ ; of total RNA; concentration 200 U/ μ l; has increased thermal stability (optimum activity at 50°C); has no 3' \rightarrow 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 7 kb long. |
| | 50 000 U (200 U/μl) | RT32-050 | |
| TRANSCRIPTME LYO Reverse Transcriptase | 100 000 U | RT32L-100 | Lyophilized version of M-MuLV Reverse Transcriptase increased thermal stability, that allows the reactior to be carried out at a higher temperature (optimun 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 cDN/ up to 7 kb long. |



| Product Name | Pack Size | Cat. No. | Description | | |
|--|-----------------------|-------------------|---|--|--|
| Other Enzymes & Proteins | | | | | |
| RIBOPROTECT Hu RNase Inhibitor IMPROVED STABILITY! | 2000 U (40 U/μl) | RT35-020 | <i>RIBOPROTECT Hu</i> RNase Inhibitor is a 50 kDa recombinant human placental protein expressed in <i>Escherichia coli</i> . It inhibits ribonuclease (RNase) activity of common eukaryotic enzymes such as RNase A, RNase B, RNase C. <i>RIBOPROTECT Hu</i> 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 | | | |
| | 40 U/µl | RT35-B (bulk) | | | |
| RIBO PROTECT Hu RNase Inhibitor Lyo-ready | 10 000 U (40 U/μl) | RT35L-010 | Formulation of <i>RIBOPROTECT Hu</i> RNase Inhibitor Lyo-ready (glycerol-free) enables its usage directly in the lyophilization process. <i>RIBOPROTECT Hu</i> Lyo-ready is recombinant human placental RNase inhibitor expressed in <i>E. coli</i> 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. | | |
| | 40 U/µl | RT35L-B (bulk) | | | |

NOTES



Sirt

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