



**blirt**

Product List / 2019

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# PRODUCT LIST

<b>DNA &amp; RNA Isolation Kits</b> .....	<b>4</b>
GENOMIC DNA Isolation Kits.....	4
RNA Isolation Kits.....	5
PLASMID DNA Isolation Kits.....	6
DNA Fragments Purification Kits.....	7
Mini Spin Columns.....	8
<b>Real-time PCR Master Mixes</b> .....	<b>9</b>
<b>PCR Reagents</b> .....	<b>10</b>
Thermostable DNA polymerases from <i>Thermus aquaticus</i> ( <i>Taq</i> Polymerases).....	10
Proofreading Polymerases and related products.....	11
PCR Enhancers.....	11
Deoxyribonucleotides (dNTPs).....	11
<b>Reverse Transcription</b> .....	<b>12</b>
<b>Enzymes &amp; Proteins</b> .....	<b>13</b>
<b>Electrophoresis</b> .....	<b>16</b>
Agaroses.....	16
DNA Ladders.....	16
Protein Ladders.....	17
DNA Gel Loading Buffers.....	17
<b>Educational Kits</b> .....	<b>18</b>
Edu Kits – PCR Technique.....	18
Edu Kits – Genotyping.....	18
<b>Marketing Equipment</b> .....	<b>19</b>

## DNA & RNA ISOLATION KITS

Product Name	Pack Size	Cat. No.	Description
<b>GENOMIC DNA Isolation Kits</b>			
<b>EXTRACTME GENOMIC DNA KIT</b> universal	10 preps	EM13-010	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.
	50 preps	EM13-050	
	250 preps	EM13-250	
<b>EXTRACTME GENOMIC DNA MICRO SPIN KIT</b>	10 preps	EM29-010	Purification and concentration of genomic DNA from solid tissues, physiological fluids, fresh and frozen blood, mucosa membrane swabs, semen, hair, rodent tails, insects, bacteria, yeast and cell cultures in a micro-spin column format (elution volume from 5 µl).
	50 preps	EM29-050	
	250 preps	EM29-250	
<b>EXTRACTME DNA BACTERIA KIT</b>	10 preps	EM02-010	Rapid and efficient purification of high quality bacterial gDNA from broth and plate cultures as well as frozen cells.
	50 preps	EM02-050	
	250 preps	EM02-250	
<b>EXTRACTME DNA TISSUE KIT</b>	10 preps	EM03-010	Purification of high quality DNA from solid tissues (fresh, frozen, formalin-preserved or paraffin-embedded), physiological fluids, hair, rodent tails, insects and cell cultures.
	50 preps	EM03-050	
	250 preps	EM03-250	
<b>EXTRACTME DNA TISSUE PLUS KIT</b>	10 preps	EM04-010	Purification of high quality DNA from solid tissues (fresh, frozen, formalin-preserved or paraffin-embedded), hair, rodent tails, insects and cell cultures. The kit includes additional bead-beating tubes with ceramic filling for tissue homogenization.
	50 preps	EM04-050	
	250 preps	EM04-250	
<b>EXTRACTME DNA BLOOD KIT</b>	10 preps	EM05-010	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.
	50 preps	EM05-050	
	250 preps	EM05-250	
<b>EXTRACTME DNA SWAB &amp; SEMEN KIT</b>	10 preps	EM06-010	Purification of high quality DNA from human and animal mucosa membrane swabs (including buccal, nasal, pharyngeal and vaginal swabs) as well as from semen.
	50 preps	EM06-050	
	250 preps	EM06-250	

Product Name	Pack Size	Cat. No.	Description
<b>RNA Isolation Kits</b>			
<b>EXTRACTME TOTAL RNA KIT</b> IMPROVED VERSION!	10 preps	EM09.1-010	New, significantly 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 <sup>7</sup> cultured cells. RNA binding capacity: ~230 µg. Significantly improved RNA yields and shortened processing time. Anti-Foam agent and nuclease are also included!
	50 preps	EM09.1-050	
	250 preps	EM09.1-250	
<b>EXTRACTME TOTAL RNA PLUS KIT</b> IMPROVED VERSION!	10 preps	EM11.1-010	New, significantly improved kit for rapid, efficient purification of high quality total RNA from up to 30mg of tissue (fresh or frozen), or up to 10 <sup>7</sup> cultured cells. RNA binding capacity: ~230 µg. Significantly improved RNA yields and shortened processing time. This kit includes ceramic beads system for gentle tissue homogenization. Anti-Foam agent and nuclease are also included!
	50 preps	EM11.1-050	
	250 preps	EM11.1-250	
<b>EXTRACTME miRNA KIT</b>	10 preps	EM12-010	For unbiased, 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 columns: first one for DNA removal, second one for purification of long RNA, and third one for purification of short RNA.
	50 preps	EM12-050	
	250 preps	EM12-250	
<b>EXTRACTME RNA &amp; DNA KIT</b>	10 preps	EM15-010	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 <sup>7</sup> cultured cells. This kit is ideal for researchers interested in studying the genome and the transcriptome of a single sample.
	50 preps	EM15-050	
	250 preps	EM15-250	
<b>EXTRACTME RNA BACTERIA &amp; YEAST KIT</b>	10 preps	EM25-010	Purification of high quality RNA from broth, yeast or bacteria cultures as well as from frozen cells; Yeast Lysis Mix, RNA Extraction Enhancer and nuclease are included; up to 60 µg RNA.
	50 preps	EM25-050	
	250 preps	EM25-250	
<b>EXTRACTME TOTAL RNA MICRO SPIN KIT</b>	10 preps	EM31-010	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). Nuclease is included.
	50 preps	EM31-050	
	250 preps	EM31-250	
<b>EXTRAZOL</b>	100 ml	EM30-100	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.
	200 ml	EM30-200	
<b>Bead-beating Tubes with ceramic filling</b>	50 pcs	HPLM50 / HPLM50A	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.
	100 pcs	HPLM100 / HPLM100A	
	500 pcs	HPLM500 / HPLM 500A	

Product Name	Pack Size	Cat. No.	Description
<b>PLASMID DNA Isolation Kits</b>			
<b>EXTRACTME PLASMID MINI KIT IMPROVED VERSION!</b>	10 preps	EM01.1-010	Mini-scale extraction of plasmid DNA from recombinant <i>Escherichia coli</i> strains; binding capacity 60 µg pDNA.
	50 preps	EM01.1-050	
	250 preps	EM01.1-250	
<b>EXTRACTME PLASMID MIDI KIT</b>	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 × g (no need to have ultracentrifuge).
	25 preps	EM16-025	
<b>EXTRACTME PLASMID MIDI ENDOTOXIN-FREE KIT</b>	10 preps	EM17-010	Ultrapure, transfection-grade plasmid DNA isolation in medium scale (50–300 ml of bacterial culture); yield: 200–600 µg DNA from 100 ml culture; endotoxins removal: <0.1 EU/µg verified by LAL; isolation time: 150–160 minutes (with DNA precipitation); centrifugation steps: 6000 × g.
	25 preps	EM17-025	
<b>EXTRACTME PLASMID MAXI KIT</b>	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 × g (no need to have ultracentrifuge).
	25 preps	EM18-025	
<b>EXTRACTME PLASMID MAXI ENDOTOXIN-FREE KIT</b>	10 preps	EM19-010	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; endotoxins removal: <0.1 EU/µg verified by LAL; isolation time: 170–180 minutes (with DNA precipitation); centrifugation steps: 6000 × g (no need to have ultracentrifuge).
	25 preps	EM19-025	

Product Name	Pack Size	Cat. No.	Description
<b>DNA Fragments Purification Kits</b>			
<b>EXTRACTME DNA CLEAN-UP KIT</b> IMPROVED VERSION!	10 preps	EM07.1-010	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; significantl improved recovery: up to 99% (depending on DNA fragment length); binding capacity: approx. 40 µg DNA; time required: 10 min for 6 PCR purifications.
	50 preps	EM07.1-050	
	250 preps	EM07.1-250	
<b>EXTRACTME DNA GEL-OUT KIT</b> IMPROVED VERSION!	10 preps	EM08.1-10	Purification of DNA fragments directly from agarose gels (standard and low-melting point agarose gels run in either a TAE or TBE buffer).
	50 preps	EM08.1-050	
	250 preps	EM08.1-250	
<b>EXTRACTME DNA CLEAN-UP &amp; GEL-OUT KIT</b> IMPROVED VERSION!	10 preps	EM26.1-10	DNA purification after enzymatic reactions & DNA fragments isolation directly from agarose gels – two options in one kit.
	50 preps	EM26.1-050	
	250 preps	EM26.1-250	
<b>EXTRACTME DNA CLEAN-UP &amp; GEL-OUT MICRO SPIN KIT</b>	10 preps	EM28-010	Rapid and efficient purification and concentration of DNA fragments after enzymatic reactions and directly from agarose gels with low elution volume of only 5 µl.
	50 preps	EM28-050	
	250 preps	EM28-250	

Product Name	Pack Size	Cat. No.	Description
<b>Mini Spin Columns</b>			
<b>DNA CLEAN-UP mini spin columns</b>	50 pcs	EM07.1C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM07.1 kit.
<b>DNA GEL-OUT mini spin columns</b>	50 pcs	EM08.1C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM08.1 and EM26.1 kits.
<b>PLASMID DNA mini spin columns</b>	50 pcs	EM01.1C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM01.1 kit.
<b>SWAB &amp; SEMEN DNA mini spin columns</b>	50 pcs	EM06C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM06 kit.
<b>GENOMIC DNA mini spin columns</b>	50 pcs	EM13C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM03, EM04, EM05, EM13 kits.
<b>BACTERIA &amp; YEAST DNA mini spin columns</b>	50 pcs	EM02C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM02, EM10 kits.
<b>TOTAL RNA mini spin columns</b>	50 pcs	EM09.1C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM09.1, EM11.1, EM15 kits.
<b>miRNA mini spin columns</b>	50 pcs	EM12C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM12 kit.
<b>MICRO SPIN columns</b>	50 pcs	EM28C-050	Micro spin columns with silica resin with 2 ml receiving tubes used in EM28, EM29 and EM31 kits.

## REAL-TIME PCR MASTER MIXES

Product Name	Pack Size	Cat. No.	Description
<b>AMPLIFYME</b> <b>SG No-ROX Mix</b>	200 rxns	AM01-020	The <b>AMPLIFYME</b> SYBR Mix is a convenient enzyme mixture for fast and reliable quantitative Real-Time PCR, using SYBR® Green dsDNA-binding dye. Compatible with qPCR instruments that don't need ROX dye.
	2000 rxns	AM01-200	
<b>AMPLIFYME</b> <b>SG Universal Mix</b>	200 rxns	AM02-020	The <b>AMPLIFYME</b> SYBR Mix is a convenient enzyme mixture for fast and reliable quantitative Real-Time PCR, using SYBR® Green dsDNA-binding dye. Universal - compatible with all types of qPCR instruments. Additional tubes with low and high concentration of ROX are included.
	2000 rxns	AM02-200	
<b>AMPLIFYME</b> <b>Probe No-ROX Mix</b>	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	
<b>AMPLIFYME</b> <b>Probe Universal Mix</b>	200 rxns	AM05-020	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. Universal – compatible with all types of qPCR instruments. Additional tubes with low and high concentration of ROX are included.
	2000 rxns	AM05-200	
<b>NEW</b> <b>AMPLIFYME</b> <b>SG One-Step</b> <b>No-ROX RT-qPCR Mix</b>	100 rxns	AM06-100	The <b>AMPLIFYME</b> SG One-Step No-ROX RT-qPCR Mix is a convenient reaction mixture created for reproducible and efficient first-strand cDNA synthesis and subsequent Real-Time PCR in a single tube.
	500 rxns	AM06-500	
<b>NEW</b> <b>AMPLIFYME</b> <b>SG One-Step</b> <b>Universal RT-qPCR Mix</b>	100 rxns	AM07-100	The <b>AMPLIFYME</b> SG One-Step Universal RT-qPCR Mix is a convenient reaction mixture created for reproducible and efficient first-strand cDNA synthesis and subsequent Real-Time PCR in a single tube. For the commodity in performance the set contains ROX passive dye in two concentrations 50x High ROX solution, 50x Low ROX solution.
	500 rxns	AM07-500	
<b>NEW</b> <b>AMPLIFYME</b> <b>Probe One-Step</b> <b>No-ROX RT-qPCR Mix</b>	100 rxns	AM08-100	A convenient reaction mixture for fast and reliable quantitative Real-Time PCR using probes, including TaqMan®, Scorpions® and molecular beacon probes. Created for reproducible and efficient first-strand cDNA synthesis and subsequent Real-Time PCR in a single tube. Used in probe based Real-Time PCR assays, including singleplex and multiplex gene expression studies.
	500 rxns	AM08-500	
<b>NEW</b> <b>AMPLIFYME</b> <b>Probe One-Step</b> <b>Universal RT-qPCR Mix</b>	100 rxns	AM09-100	A convenient reaction mixture for fast and reliable quantitative Real-Time PCR using probes, including TaqMan®, Scorpions® and molecular beacon probes. Created for reproducible and efficient first-strand cDNA synthesis and subsequent Real-Time PCR in a single tube. Used in probe based Real-Time PCR assays, including singleplex and multiplex gene expression studies. For the commodity in performance the set contains ROX passive dye in two concentrations 50x High ROX solution, 50x Low ROX solution.
	500 rxns	AM09-500	

## PCR REAGENTS

Product Name	Pack Size	Cat. No.	Description
<b>Thermostable DNA polymerases from <i>Thermus aquaticus</i> (Taq Polymerases)</b>			
<b>TaqNova DNA Polymerase</b>	200 U (2 U/μl or 5 U/μl)	RP702, 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 (2 U/μl or 5 U/μl)	RP705, RP705A	
	1000 U (2 U/μl or 5 U/μl)	RP710, RP710A	
	2500 U (2 U/μl or 5 U/μl)	RP725, RP725A	
<b>NEW TaqNova DNA-free Polymerase</b>	200 U (5 U/μl)	RP1002	TaqNova DNA-free Polymerase is a 94 kDa recombinant, thermostable Taq DNA polymerase isolated from <i>Thermus aquaticus</i> . It is recommended for a wide range of applications which require DNA synthesis at extremely high temperatures. The TaqNova DNA-free Polymerase is a universal and easy-to-use DNA polymerase which works rapidly and effectively in various PCR conditions. 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	
<b>2x PCR TaqNova-RED</b>	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	
<b>TaqNovaGC DNA Polymerase</b>	200 U (5 U/μl)	RP73-020	Taq DNA Polymerase ideal for amplification on GC-rich templates; ideal for problematic templates, that fail with standard Taq DNA polymerases.
	1000 U (5 U/μl)	RP73-100	
<b>TaqNovaHS DNA Polymerase</b>	200 U (2 U/μl or 5 U/μl)	RP902, 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 (2 U/μl or 5 U/μl)	RP905, RP905A	
	1000 U (2 U/μl or 5 U/μl)	RP910, RP910A	
	2500 U (2 U/μl or 5 U/μl)	RP925, RP925A	
<b>2x PCR TaqNovaHS</b>	100 rxns (50 μl)	RP90H	2x concentrated, ready-to-use PCR master mix with TaqNovaHS (Hot-Start) polymerase, that facilitates an easy and rapid PCR reaction set-up; without red dye.
	1000 rxns (50 μl)	RP90H-10	
<b>NEW TaqNova Stoffel DNA Polymerase</b>	1000 U (2 U/μl)	RP810	Highly active Taq DNA polymerase without 5' to 3' exonuclease activity. TaqNova Stoffel DNA Polymerase works optimally at a broader range of MgCl <sub>2</sub> 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
<b>Proofreading Polymerases and related products</b>			
<b>Hypernova DNA Polymerase</b>	200 U (2 U/μl)	RP232	A modified highly thermostable and proofreading DNA polymerase <i>Pwo</i> isolated from <i>Pyrococcus woesei</i> which can generate long amplicons (over 10 kb); versatile and easy-to-use polymerase, since it works with many different protocols and requires minimal time consuming optimization.
	1000 U (2 U/μl)	RP235	
<b>2x PCR Hypernova-RED</b>	100 rxns (50 μl)	RP85	2x concentrated, ready-to-use PCR master mix with <i>Hypernova</i> DNA polymerase, that facilitates an easy and rapid PCR reaction set-up.
	1000 rxns (50 μl)	RP85-10	
<b>PCR Enhancers</b>			
<b>PCR Anty-inhibitor</b>	100 rxns	RP50	PCR additive used for elimination of PCR inhibitors coextracted with the DNA; amplification of problematic templates, isolated from: urine, stool, saliva, sputum, blood, swabs, biopsy materials etc.
	500 rxns	RP51	
<b>5x GC Additive</b>	1 ml	RP516	PCR additive for GC-rich templates; reduces quantity of secondary structures and enables a specific hybridization of primers.
	5x 1 ml	RP517	
<b>Deoxyribonucleotides (dNTPs)</b>			
<b>dNTPs MIX 8 mM Total</b>	1 ml	RP61	Deoxyribonucleotides Mix (2 mM dATP, 2 mM dCTP, 2 mM dGTP, 2 mM dTTP); ultra-pure; supplied as lithium salts (greater stability).
<b>dNTPs MIX 10 mM Total</b>	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).
<b>dNTPs MIX 40 mM Total</b>	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).
<b>dNTPs MIX 100 mM Total</b>	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).
<b>dNTPs SET 10 mM</b>	4x 1 ml	RP665	10 mM of each dNTP in separate tubes; ultra-pure; supplied as lithium salts (greater stability).
<b>dNTPs SET 100 mM</b>	4x 1 ml	RP675	100 mM of each dNTP in separate tubes; ultra-pure; supplied as lithium salts (greater stability).
	4x 250 μl	RP675-25	

## REVERSE TRANSCRIPTION

Product Name	Pack Size	Cat. No.	Description
<b>TRANSCRIPTME RNA KIT</b> 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 <sub>2</sub> ) and RNase H.
	100 rxns	RT31-100	
<b>TRANSCRIPTME</b> 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 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 10 kb long.
	50 000 U (200 U/µl)	RT32-050	
<b>RNase H</b>	250 U (5 U/µl)	RT34-025	Recombinant enzyme, which hydrolyses specifically the phosphodiester bonds of RNA hybridized to DNA; it is a key enzyme in the removal of mRNA after first-strand cDNA synthesis.
	1250 U (5 U/µl)	RT34-125	
<b>RIBOPROTECT</b> Hu RNase Inhibitor IMPROVED STABILITY!	2000 U (40 U/µl)	RT35-020	Recombinant human placental RNase Inhibitor expressed in <i>E. coli</i> strain.
	10 000 U (40 U/µl)	RT35-100	
<b>RIBOPROTECT</b> Hu-Mut RNase Inhibitor	2000 U (40 U/µl)	RT36-020	Mutated version of human placental RNase Inhibitor that has significantly improved resistance to oxidation.
	10 000 U (40 U/µl)	RT36-100	

## ENZYMES & PROTEINS

Product Name	Pack Size	Cat. No.	Description
<b>T4 DNA Ligase</b>	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	
<b>Quick Ligase</b>	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	
<b>Tth DNA Ligase</b>	250 U (3750 CEU) (5 U/μl)	EN13-025	NAD-dependent recombinant ligase from <i>Thermus thermophilus</i> . 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	
<b>UDGase</b>	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	
<b>phi29 DNA Polymerase</b>	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	
<b>RNase A (DNase-free)</b>	10 mg	RP14	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.
	50 mg	RP145	
<b>TRANSCRIPTME M-MuLV Reverse Transcriptase</b>	10 000 U (200 U/μl)	RT32-010	Modified M-MuLV Reverse Transcriptase; 10 μg – 5 μg of total RNA; concentration 200 U/μl; has increased thermal stability (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 10 kb long.
	50 000 U (200 U/μl)	RT32-050	
<b>RNase H</b>	250 U (5 U/μl)	RT34-025	Recombinant enzyme, which hydrolyses specifically the phosphodiester bonds of RNA hybridized to DNA; it is a key enzyme in the removal of mRNA after first-strand cDNA synthesis.
	1250 U (5 U/μl)	RT34-125	

Product Name	Pack Size	Cat. No.	Description
<b>TEV Protease</b>	1000 U (1 U/μl)	RP171	Protease Recombinant TEV Protease is a highly site-specific cysteine protease, which is found in the Tobacco Etch Virus. Due to its sequence specificity, the TEV protease is a very powerful reagent for the removal of fusion tags from recombinant proteins after protein purification. TEV Protease specifically recognizes a seven amino acid sequence of the general form Glu-X-X-Tyr-X-Gln↓ (Gly/Ser), most commonly Glu-Asn-Leu-Tyr-Phe-Gln↓ Gly, and cleaves between glutamine and glycine or serine.
	10 000 U (1 U/μl)	RP172	
<b>NEW Masterase</b> (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 <i>Pichia pastoris</i> . 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 and it is extremely useful for rapid and safe purification of RNA or proteins samples from contaminating DNA. The enzyme hydrolyzes phosphodiester linkages yielding oligonucleotides with a 5'-phosphate and a 3'-hydroxyl groups.
	2500 U (2 U/μl)	EN31-025	
	(20 U/μl)	EN31HC (upon request)	
<b>NEW Saltonase</b> (HL-Nuclease)	500 U (20 U/μl)	EN32-S	Saltonase is a 28.4 kDa, 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 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.
	5000 U (20 U/μl)	EN32-050	
	25 000 U (20 U/μl)	EN32-250	
<b>NEW DNaseMe</b> (dsDNase)	500 U (20 U/μl)	EN33-S	DNaseMe is a 42.8 kDa recombinant endonuclease, derived from marine amphipods, expressed in <i>Pichia pastoris</i> . 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.
	5000 U (20 U/μl)	EN33-050	
	25 000 U (20 U/μl)	EN33-250	
<b>RIBOPROTECT</b> <b>Hu RNase Inhibitor</b> IMPROVED VERSION!	2000 U (40 U/μl)	RT35-020	Recombinant human placental RNase Inhibitor expressed in <i>E. coli</i> strain.
	10 000 U (40 U/μl)	RT35-100	

<b>RIBOPROTECT</b> Hu-Mut RNase Inhibitor	2000 U (40 U/ $\mu$ l)	RT36-020	Mutated version of human placental RNase Inhibitor that has significantly improved resistance to oxidation.
	10 000 U (40 U/ $\mu$ l)	RT36-100	
<b>BSA (Bovine Serum Albumin)</b>	10 g	EN17-010	A highly pure Albumin (Fraction V) recommended for a variety of applications where quality is required; purity >98%; free of nucleases and proteases; soluble in water; pH (10% in water at 25°C) 6.5–7.5.
	100 g	EN17-100	

<b>Proteinase K</b>		Form	Pack Size	Cat. No.
<b>MBG</b>				
<p>Recombinant Proteinase K from <i>Tritirachium album</i> expressed in <i>Pichia pastoris</i> 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 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.</p>	Powder	100 mg	RP100B	
		250 mg	RP101B	
		1000 mg	RP102B	
		bulk	RP103B	
	Cake (re-lyophilized)	on request	RP103B-C	
	Solution	1 ml (20 mg/ml)	RP107B-1	
		5 ml (20 mg/ml)	RP107B-5	
		bulk	RP107B	
<b>NGS</b>				
<p>Proteinase K NGS Grade is developed for most demanding applications. Additional purification technology results in its significantly increased solubility (<math>\geq 50</math> mg/ml) and remarkable purity with DNA content <math>\leq 0.1</math> pg/mg. Product is available as specially formulated for smooth aliquoting powder or convenient for direct use liquid. Free of exonucleases, endonucleases and ribonucleases.</p>	Powder	100 mg	RP100N	
		1 g	RP102N	
		bulk	RP103N	

## ELECTROPHORESIS

Product Name	Pack Size	Cat. No.	Description
<b>Agaroses</b>			
<b>Agarose LE Standard</b>	100 g	AG41-010	For the routine gel electrophoresis of a wide range of DNA fragments (100–25.000 bp).
	500 g	AG41-050	
<b>Agarose LE Tablets</b>	50 tablets	AG45-005	Accurately preweighed 0.5 g tablets of Agarose LE in a convenient blister pack.
	200 tablets	AG45-020	
<b>Agarose HR High resolution</b>	50 g	AG42-005	Agarose suitable for separation of small DNA fragments between 20–800 bp.
	100 g	AG42-010	
<b>Agarose LM Low Melting</b>	50 g	AG43-005	Agarose for preparative electrophoresis and the recovery of DNA and RNA.
<b>DNA Ladders</b>			
<b>M100-500 DNA Ladder</b>	50-100 lanes	MR71	100-500 bp
<b>M100-500 DNA Ladder <i>ready-to-use</i></b>	50-100 lanes	MR75	100-500 bp
<b>M100-1000 DNA Ladder</b>	50-100 lanes	MR61	100-1000 bp
<b>M100-1000 DNA Ladder <i>ready-to-use</i></b>	50-100 lanes	MR65	100-1000 bp
<b>M10kpz DNA Ladder <i>ready-to-use</i></b>	50-100 lanes	MR18	200-10000 bp
<b>M50pz DNA Ladder</b>	50-100 lanes	MR20	50-1000 bp
<b>M50pz DNA Ladder <i>ready-to-use</i></b>	50-100 lanes	MR201	50-1000 bp
<b>IDEAL II DNA Ladder <i>ready-to-use</i></b>	50-100 lanes	MR25	700-9200 bp

Product Name	Pack Size	Cat. No.	Description
<b>Protein Ladders</b>			
<b>3-Colour Prestained Protein Marker</b> (10-245 kDa)	500 µl	PM30-500	Three colour prestained protein marker with 12 lanes in range of 10–245 kDa.
<b>3-Colour Prestained Protein Marker II</b> (10-180 kDa)	500 µl	PM31-500	Three colour prestained protein marker with 10 lanes in range of 10–180 kDa.
<b>Blue Prestained Protein Marker</b> (10-180 kDa)	500 µl	PM32-500	Blue prestained protein marker with 10 lanes in range of 10–245 kDa.
<b>DNA Gel Loading Buffers</b>			
<b>6x GREEN</b>	1 ml	AG18	DNA Gel Loading Dye is pre-mixed loading buffer with a tracking dye for agarose and non-denaturing polyacrylamide gel electrophoresis.
<b>6x BLUE</b>	1 ml	AG16	

## EDUCATIONAL KITS

Product Name	Pack Size	Cat. No.	Description
<b>Edu Kits – PCR Technique</b>			
<i>EasyPCR I</i>	1 lab class (6 sets)	DY45	Educational kit for optimization of a PCR reaction.
	5 lab classes (6 sets)	DY455	
<i>EasyPCR XY</i>	1 lab class (6 sets)	DY10A	Educational kit for human sex determination with the use of PCR.
	5 lab classes (6 sets)	DY105A	
<i>EasyPCR XY + DNA isolation</i>	1 lab class (6 sets)	DY10	Educational kit for DNA isolation and human sex determination.
	5 lab classes (6 sets)	DY105	
<i>EasyPCR HIV</i>	1 lab class (6 sets)	DY25A	Educational kit for determination of HIV resistance by PCR reaction.
	5 lab classes (6 sets)	DY255A	
<i>EasyPCR HIV + DNA isolation</i>	1 lab class (6 sets)	DY25	Educational kit for DNA isolation and determination of HIV resistance by PCR reaction.
	5 lab classes (6 sets)	DY255	
<b>Edu Kits – Genotyping</b>			
<i>EasyGenotyping PCR-RFLP</i>	1 lab class (6 sets)	DY87	Educational kit for bacterial strain genotyping with the use of PCR-RFLP technique.
	5 lab classes (6 sets)	DY875	
<i>EasyGenotyping ITS PCR</i>	1 lab class (6 sets)	DY62	Educational kit for bacterial strain genotyping with the use of ribotyping technique.
	5 lab classes (6 sets)	DY625	

## MARKETING EQUIPMENT

Product Name	Pack Size	Description
<b>Roll-up banner</b>	1 pc	roll-up with Distributor's and BLIRT logo
<b>Marketing gadgets with Blirt logo</b>	1 pc	pens, bike seat cover, ice scrapers, wine opener set



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