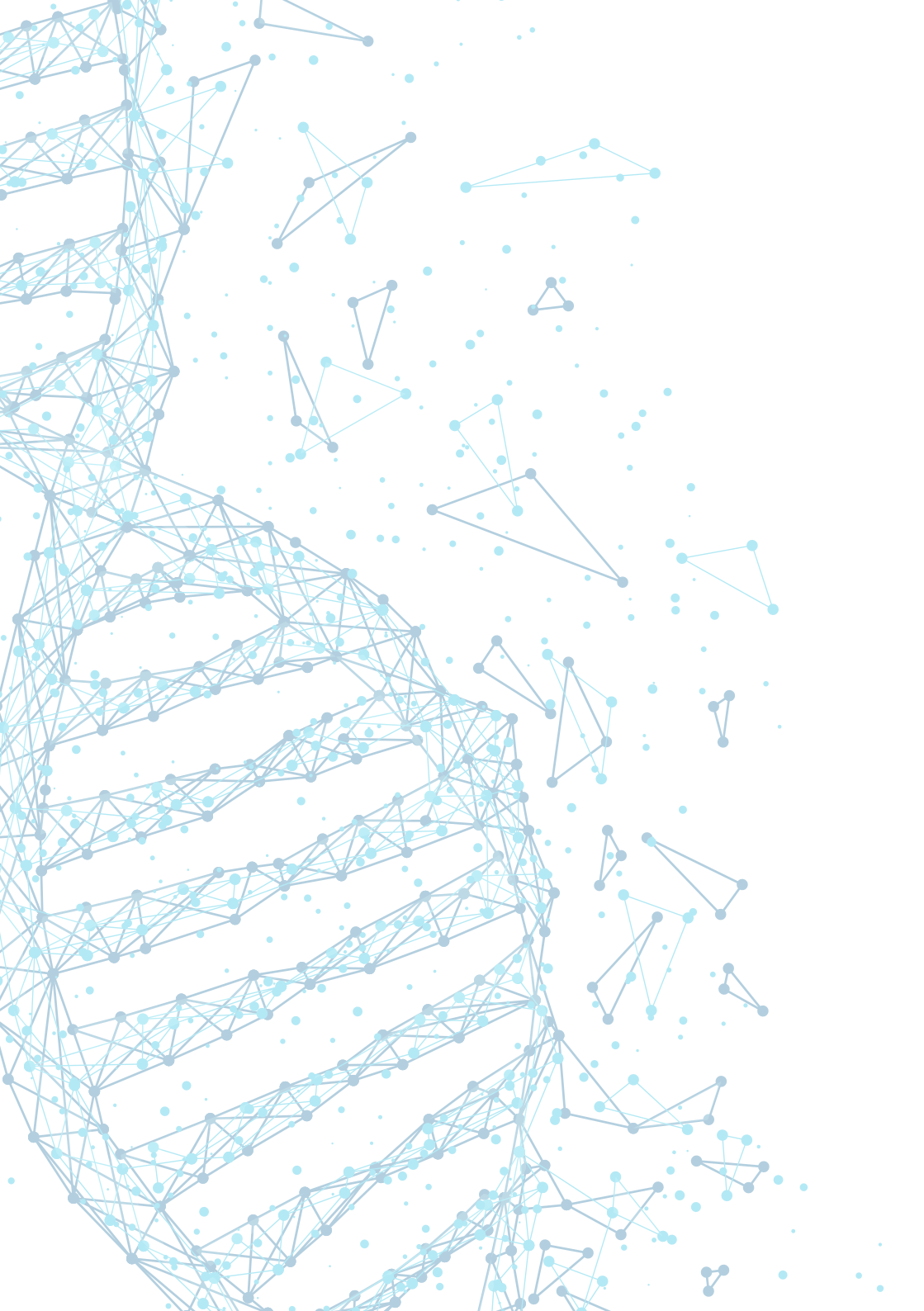


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Enzymes As You Need



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DNA & RNA ISOLATION KITS

Product Name	Pack Size	Cat. No.	Description
GENOMIC DNA Isolation Kits			
EXTRACTME GENOMIC DNA KIT 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	
EXTRACTME DNA BACTERIA KIT	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	
EXTRACTME DNA TISSUE KIT	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	
EXTRACTME DNA TISSUE PLUS KIT	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	
EXTRACTME DNA BLOOD KIT	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	
EXTRACTME DNA SWAB & SEMEN KIT	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
RNA Isolation Kits			
EXTRACTME TOTAL RNA KIT	10 preps	EM09.1-010	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. Antifoam reagent and nuclease are also included!
	50 preps	EM09.1-050	
	250 preps	EM09.1-250	
EXTRACTME TOTAL RNA PLUS KIT	10 preps	EM11.1-010	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. This kit includes ceramic beads system for gentle tissue homogenization. Antifoam reagent and nuclease are also included!
	50 preps	EM11.1-050	
	250 preps	EM11.1-250	
EXTRACTME miRNA KIT	10 preps	EM12-010	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 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	
EXTRACTME RNA & DNA KIT	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 ⁷ 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	
EXTRACTME RNA BACTERIA & YEAST KIT	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	
EXTRACTME TOTAL RNA MICRO SPIN KIT	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	
EXTRAZOL	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	
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			
EXTRACTME PLASMID MINI KIT	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	
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 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	
EXTRACTME PLASMID MIDI ENDOTOXIN-FREE KIT	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 x g.
	25 preps	EM17-025	
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; isolation time: 140–150 minutes (with DNA precipitation); centrifugation steps: 6000 x g (no need to have ultracentrifuge).
	25 preps	EM18-025	
EXTRACTME PLASMID MAXI ENDOTOXIN-FREE KIT	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 x g (no need to have ultracentrifuge).
	25 preps	EM19-025	

Product Name	Pack Size	Cat. No.	Description
DNA Fragments Purification Kits			
EXTRACTME DNA CLEAN-UP KIT	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	
EXTRACTME DNA GEL-OUT KIT	10 preps	EM08.1-010	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	
EXTRACTME DNA CLEAN-UP & GEL-OUT KIT	10 preps	EM26.1-010	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	
EXTRACTME DNA CLEAN-UP & GEL-OUT MICRO SPIN KIT	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
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 EM08.1 and EM26.1 kits.
PLASMID DNA mini spin columns	50 pcs	EM01C-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, EM04, EM05, EM13 kits.
BACTERIA & YEAST DNA mini spin columns	50 pcs	EM02C-050	Mini spin columns with silica resin with 2 ml receiving tubes used in EM02, EM10 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, EM11.1, 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 EM28, EM29 and EM31 kits.

REAL-TIME PCR MASTER MIXES

Product Name	Pack Size	Cat. No.	Description
AMPLIFYME SG No-ROX Mix	200 rxns	AM01-020	The <i>AMPLIFYME</i> 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	
AMPLIFYME SG Universal Mix	200 rxns	AM02-020	The <i>AMPLIFYME</i> 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	
AMPLIFYME Probe Universal Mix	200 rxns	AM05-020	The <i>AMPLIFYME</i> 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 SG One-Step No-ROX RT-qPCR Mix	100 rxns	AM06-100	Ready-to-use, 2x concentrated Mix contains all ingredients necessary for Real-Time PCR based on intercalating dsDNA binding dye chemistry: hot-start <i>Taq</i> polymerase, dNTPs, specially developed buffer, stabilizers and enhancers.
	500 rxns	AM06-500	
AMPLIFYME SG One-Step Universal RT-qPCR Mix	100 rxns	AM07-100	Ready-to-use, 2x concentrated Mix contains all ingredients necessary for Real-Time PCR based on intercalating dsDNA binding dye chemistry: hot-start <i>Taq</i> polymerase, dNTPs, specially developed buffer, stabilizers and enhancers.
	500 rxns	AM07-500	
AMPLIFYME Probe One-Step No-ROX RT-qPCR Mix	100 rxns	AM08-100	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, stabilizers and enhancers.
	500 rxns	AM08-500	
AMPLIFYME Probe One-Step Universal RT-qPCR Mix	100 rxns	AM09-100	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, stabilizers and enhancers.
	500 rxns	AM09-500	

PCR REAGENTS

Product Name	Pack Size	Cat. No.	Description
Thermostable DNA polymerases from <i>Thermus aquaticus</i> (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	
NEW 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 <i>Thermus aquaticus</i> . 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 <i>E. coli</i> 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)	
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	
NEW 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
Proofreading Polymerases from <i>Pyrococcus woesei</i> (Pwo Polymerases)			
Hypernova DNA Polymerase	200 U (2 U/μl)	RP232	<i>Hypernova</i> DNA Polymerase is a recombinant, thermostable and proofreading <i>Pwo</i> DNA polymerase, derived from <i>Pyrococcus woesei</i> , expressed in <i>E. coli</i> . The enzyme can generate very long amplicons (up to 10 kbp). Hypernova is a versatile and easy-to-use polymerase since it works with many different protocols and requires minimal time consuming optimization. It is also recommended for the amplification of difficult templates (regions abundant in GC, palindromes and multiple repeats).
	1000 U (2 U/μl)	RP235	
2x PCR Hypernova-RED	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. 2x PCR Hypernova-RED is supplemented with an inner dye and a density reagent, which allows for direct loading of PCR products to a gel.
	1000 rxns (50 μl)	RP85-10	
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).
dNTPs SET 10 mM	4x 1 ml	RP665	10 mM of each dNTP in separate tubes; ultra-pure; supplied as lithium salts (greater stability).
dNTPs SET 100 mM	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
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	
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 enzyme 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	RIBOPROTECT Hu 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. RIBOPROTECT 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	

ENZYMES & PROTEINS

Product Name	Form	Pack Size	Cat. No.	Description	
MBG	Powder	100 mg	RP100B	<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.</p> <p>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.</p> <p>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.</p>	
		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
			250 mg		RP101N
1 g			RP102N		
bulk			RP103N		

Product Name	Pack Size	Cat. No.	Description
Nucleases			
NEW 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 <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. The enzyme hydrolyzes phosphodiester linkages yielding oligonucleotides with a 5'-phosphate and a 3'-hydroxyl groups.
	2500 U (2 U/μl)	EN31-025	
NEW Saltonase (HL-Nuclease)	5000 U (20 U/μl)	EN32-050	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.
	25 000 U (20 U/μl)	EN32-250	
NEW DNaseMe (dsDNase)	5000 U (20 U/μl)	EN33-050	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.
	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	

Product Name	Pack Size	Cat. No.	Description
Other Enzymes & Proteins			
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 <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	
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	
RIBOPROTECT Hu RNase Inhibitor IMPROVED STABILITY!	2000 U (40 U/μl)	RT35-020	RIBOPROTECT Hu 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. RIBOPROTECT 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	
BSA (Bovine Serum Albumin)	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	

ELECTROPHORESIS

Product Name	Pack Size	Cat. No.	Description
Agaroses			
Agarose LE Standard	100 g	AG41-010	For the routine gel electrophoresis of a wide range of DNA fragments (100–25.000 bp).
	500 g	AG41-050	
Agarose HR High resolution	50 g	AG42-005	Agarose suitable for separation of small DNA fragments between 20–800 bp.
	100 g	AG42-010	
Agarose LM Low Melting	50 g	AG43-005	Agarose for preparative electrophoresis and the recovery of DNA and RNA.
DNA Ladders			
M50pz DNA Ladder <i>ready-to-use</i>	50 – 100 lanes	MR201	50 – 1000 bp
IDEAL II DNA Ladder <i>ready-to-use</i>	50 – 100 lanes	MR25	700 – 9200 bp
M50-1500 FAST DNA Ladder <i>ready-to-use</i>	50 – 100 lanes	MR27	50, 200, 400, 800, 1500 bp
Protein Ladder			
3-Colour Prestained Protein Marker (10-245 kDa)	500 µl	PM30-500	Three colour prestained protein marker with 12 lanes in range of 10–245 kDa.
DNA Gel Loading Buffers			
6x GREEN	1 ml	AG18	DNA Gel Loading Dye is a pre-mixed loading buffer with a tracking dye for agarose and non-denaturing polyacrylamide gel electrophoresis.
6x BLUE	1 ml	AG16	

EDUCATIONAL KITS

Product Name	Pack Size	Cat. No.	Description
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Edu Kits – PCR Technique

EasyPCR XY	1 lab class (6 sets)	DY10A	Educational kit for human sex determination with the use of PCR.
	5 lab classes (6 sets)	DY105A	
EasyPCR XY + DNA isolation	1 lab class (6 sets)	DY10	Educational kit for DNA isolation and human sex determination.
	5 lab classes (6 sets)	DY105	
EasyPCR HIV	1 lab class (6 sets)	DY25A	Educational kit for determination of HIV resistance by PCR reaction.
	5 lab classes (6 sets)	DY255A	
EasyPCR HIV + DNA isolation	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	

Edu Kits – Genotyping

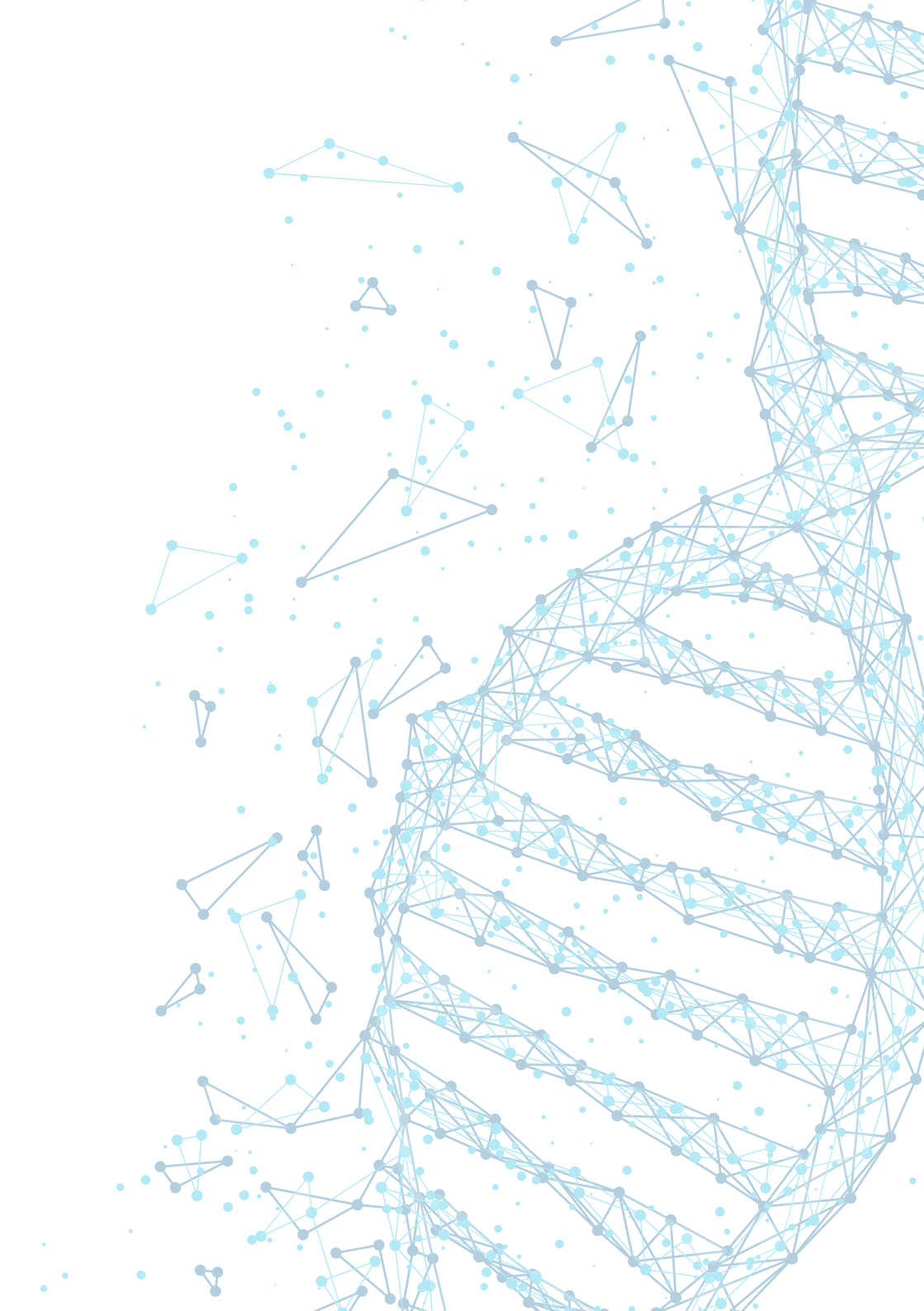
EasyGenotyping PCR-RFLP	1 lab class (6 sets)	DY87	Educational kit for bacterial strain genotyping with the use of PCR-RFLP technique.
	5 lab classes (6 sets)	DY875	
EasyGenotyping ITS PCR	1 lab class (6 sets)	DY62	Educational kit for bacterial strain genotyping with the use of ribotyping technique.
	5 lab classes (6 sets)	DY625	

BIOCHEMICALS

Product Name	Pack Size	Cat. No.	Description
IPTG (dioxane free)	5 g	B35	IPTG (isopropyl- β -D-1-thiogalactopyranoside) is a chemical analog of lactose, which is not hydrolysed by β -galactosidase. It is used during the expression of recombinant protein in a Tabor-Studier as an inducer of the lac promoter. IPTG is also used in combination with X-Gal in the screening of recombinant clones of <i>E. coli</i> based on the known plasmid pUC18/19 system for selecting the white/blue colonies.
	25 g	B325	

NOTES

A series of horizontal dotted lines for taking notes.





blirt

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