# 

Enzymes As You Need

# Product List 2021

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#### **BLIRT - Biolab innovative Research Technologies**

BLIRT is a primary European manufacturer of recombinant enzymes for the Life Science industry. The motto of "Enzymes As You Need" reflects our business philosophy and the reasonable offer for B2B partners.



We focus on providing components – enzymes for customers' innovative products and additional portioning services, adjusting the product form, and a flexible cooperation model.





QUANTITIES



SUPPORT







DISTRIBUTION

#### Certification

Quality is highly important in all manufacturing industries, and a high standard of molecular reagents is an essential element in health and diagnostics.

ISO 13485:2016 standard rises from a defined set of quality principles that revolve around rigorous process management, product quality, and patient safety.



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### **DNA & RNA ISOLATION KITS**

Product Name	Pack Size	Cat. No.	Description
GENOMIC DNA Isolatio	on Kits	'	
<b>EXTRACT</b> ME	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
<b>GENOMICDNAKIT</b> 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.
<b>EXTRACT</b> 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.
<b>EXTRACT</b> 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.
<b>EXTRACT</b> MF	50 preps	EM06-050	Purification of high quality DNA from human and animal mucosa membrane swabs (including
DNA SWAB & SEMEN KIT	250 preps	EM06-250	buccal, nasal, pharyngeal and vaginal swabs) aswellas from semen.



Product Name	Pack Size	Cat. No.	Description
RNA Isolation Kits			
<b>EXTRACT</b> ME	50 preps	EM39-050	Rapid and efficient purification of high-qualit viral RNA from swabs. The kit is specificall designed to isolate viral nucleic acid fror avariety of RNA viruses. The isolation protocc and buffer formulation were optimized for hig
VIRAL RNA KIT	250 preps	EM39-250	isolation efficiency and RNA purity. RNA bindin, capacity: ~120 µg. Purified RNA is eluted with th use of low ionic strength buffer and may be used directly in all downstream applications, such a RT-PCR, RT-qPCR, cDNA synthesis.
EXTRACTME	50 preps	EM09.2-050	Improved kit for rapid, efficient purification o high quality total RNA from up to 30 mg of tissu (fresh or frozen), orup to 107 cultured cells. RN/
TOTAL RNA KIT	250 preps	EM09.2-250	binding capacity: ~230µg. 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 (< 200nt). Superio yields and purity. Suitable for wide range of cells tissues (including blood). Thiskit also allows par allel extraction of high quality long RNA strand
	250 preps	EM12-250	(>200 nt) from the same sample. The kit contain three different types of columns: first one for DN/ removal, second one for purification of long RNA and third one for purification of shortRNA.
<b>EXTRACT</b> 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 <sup>7</sup> cultured cells. This kit is ideal fo researchers interested in studying the genome and the transcriptome of asingle sample.
EXTRACTME	50 preps	EM31.1-050	Rapid and efficient purification and concentration of high quality RNA from tissue or cultured cells
TOTAL RNA MICRO SPINKIT	250 preps	EM31.1-250	in a micro-spin column format (elution volume from5 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 obacterial origin within one hour.
Bead-beating tubes withceramic filling	100 pcs	HPLM100 / HPLM100A	2 ml bead-beating tubes with 1 g ceramic filling (1.4 mm) for soft tissue homogenization
	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 Isolati	on Kits		
EXTRACTME	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
PLASMID MINI KIT	250 preps	EM01.1-250	binding capacity 60 µg pDNA; one protocol for high/low copy plasmids.
EXTRACTMF	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
PLASMID MIDI KIT	25 preps	EM16-025	100ml culture; isolation time: 120–130minutes (with DNA precipitation); centrifugation steps: 6000xg (no need to have ultracentrifuge).
EXTRACTME 1	10 preps	EM18-010	Ultrapure, transfection-grade plasmid DNA isolation in large scale (200–1000 ml ofbacterial culture); yield: 1–1.5 mg DNA from 400ml culture;
PLASMID MAXI KIT	25 preps	EM18-025	isolation time: 140–150 minutes (with DNA precipitation); centrifugation steps: 6000 x g (noneed to have ultracentrifuge).



Product Name	Pack Size	Cat. No.	Description		
DNA Fragments Purification Kits					
EXTRACTME DNA CLEAN-UP KIT	50 preps	EM07.1-050	Kit for DNA purification after enzymatic reaction the kit enables the purification of DNA fragmen from 50 bp to 20 kb, as well as plasmid ar		
	250 preps	EM07.1-250	<ul> <li>genomic DNA; significall improved recovery: up to 99% (depending on DNA fragment length); binding capacity: approx. 40 µg DNA; time required: 10min for 6PCR purifications.</li> </ul>		
EXTRACTME DNA	50 preps	EM26.1-050	DNA purification after enzymatic reactions &DNA		
CLEAN-UP &GEL-OUT KIT	250 preps	EM26.1-250	fragments isolation directly from agarose gels – 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 EM15kits.
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 2ml receiving tubes used in used in EM31.1 kit.



# **REAL-TIME PCR MASTER MIXES**

Product Name	Pack Size	Cat. No.	Description
<b>AMPLIFY</b> ME	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.
<b>AMPLIFY</b> 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.
<b>AMPLIFY</b> 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.
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
	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
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#### Thermostable DNA polymerases from *Thermus aquaticus* (*Taq* Polymerases)

	200 U (5 U/μl)	RP702A	<ul> <li>Taq DNA Polymerase suited to a wide range of</li> </ul>
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	the3'ends.
<i>TaqNova</i> 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.
	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 (s 1 E. coli genome in 1 U of enzyme), enabling amplification of very
	100 U/µl	RP1000HC (upon request)	conserved sequences (e.g. bacterial 165 rRNA reging without risk of false positive PCR results.  The enzyme catalyzes DNA synthesis in a 5'-direction, shows no 3'→5' exonuclease activity, has a 5'→3' exonuclease activity.
2xPCR	100 rxns (50 μl)	RP85T	2x concentrated, ready-to-use PCR master mix with
TaqNova-RED	1000 rxns (50 μl)	RP85T-10	<ul> <li>TaqNova polymerase, that facilitates an easy and rapid PCR reaction set-up.</li> </ul>
	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	(forHot-Start PCR technique); high PCR specificity with minimal optimization; fast 2-minutes enzyme
	2500 U (5 U/μl)	RP925A	activation time; veryefficient.
TaqNova Stoffel DNAPolymerase	1000 U (2 U/μl)	RP810	Highly active <i>Taq</i> DNA polymerase without 5'→3' exonuclease activity. <i>TaqNova</i> Stoffel DNA Polymerase works optimally at a broader range of MgCl <sub>2</sub> concentration (2–10 mM) as compared to <i>Taq</i> DNA polymerase – easier and faster optimization. It is also useful for multiplex reactions. Inspecial applications <i>TaqNova</i> Stoffel DNA Polymerase has proven better specificity than regular <i>Taq</i> DNA polymerase. It is especially recommended for amplifications of small fragments from gDNA. Theabsence of the 5'→3' exonuclease activity makes it very suitable for cycle sequencing. Itgives higher sequence intensity and low background.



Product Name	Pack Size	Cat. No.	Description
PCR Enhancers			
DCD And Tabliform	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 (d	INTPs)		
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	20 rxns	RT31-020	10 pg – 5 µg of total RNA; optimal reaction temp. 50°C; contains Enzyme Mix (Reverse Transcriptase and RNase
RNA KIT cDNA synthesis kit	100 rxns	RT31-100	Inhibitor); 2x Master Mix (oligo(dT) primers, random hexamers, dNTPs, MgCl <sub>2</sub> ) and RNaseH.
TRANSCRIPTME	10000 U (200U/μl)	RT32-010	Modified M-MuLV Reverse Transcriptase; 10pg – 5µg of total RNA; hasincreased thermal stability (optimum activity at 50°C); has no 3'→5' exonuclease and reduced RNase Hactivity, which improves the synthesis
Reverse Transcriptase	50000 U (200U/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 kblong.
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 (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 7kb long.
PNaco H	250 U (5U/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
RNase H	1250 U (5U/μl)	RT34-125	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 aPCRreaction.
	2000 U (40U/μl)	RT35-020	RIBOPROTECT Hu RNase Inhibitor is a 50 kDa recombinant human placental protein expressed in Escherichic coli. It inhibits ribonuclease (RNase) activity of common
RIBOPROTECT Hu RNase Inhibitor IMPROVED STABILITY!	10000 U (40U/μl)	RT35-100	<ul> <li>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 ahazard to RNA quality and experiment results, e.g. in RNA iso- lation, cDNA synthesis, RT-PCR, invitro transcription</li> </ul>
	DT7E B and translation, or RNase-fr	and translation, or RNase-free monoclonal antibody preparation. Stable up to 58°C and at min. 0.5 – 1 mM	
<b>RIBO</b> PROTECT Hu RNase Inhibitor	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
Lyo-ready	40 U/μl	RT35L-B (bulk)	expressed in E. colistrain that completely inhibits RNase A, B, and C activity. Stable at least 4 weeks at 37°C; upto3 freeze/thaw cycles acceptable.



# **ENZYMES & PROTEINS**

Product Name	Form	Pack Size	Cat. No.	Description
Proteinase K				
		100 mg	RP100B	Recombinant Proteinase K from
		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	Cake	on request	RP103B-C	compromising the integrity of the isolated DNA or RNA. Proteinase K is fully active under denaturing
		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.
<b>NGS</b> Powder		100 mg	RP100N	Proteinase K NGS Grade is developed for most demanding applications.
	D 1	250 mg	RP101N	Additional purification technology resu in its significantly increased solubil (≥50 mg/ml), increased specific activ
	Powder	1 g	RP102N	(≥35U/mg lyophilizate; ≥ 45U/mg protein) and remarkable purity with DNA content ≤0.1 pg/mg.
		bulk	RP103N	Free of exonucleases, endonucleasesance ribonucleases.



Product Name	Pack Size	Cat. No.	Description	
Nucleases				
<b>Saltonase</b> (HL-Nuclease)	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 demanding conditions, including low temperatures and environment with high salt content. Thesefeatures make Saltonase extremely useful for removing undesired nucleic acids contamination during purification of proteins in laboratory and manufacturing workflows.	
	25000 U (20 U/μl)	EN32-250		
<b>Masterase</b> (HL-dsDNase)	500 U (2 U/μl)	EN31-005	Masterase is a 43.3 kDa heat-labile recombinar endonuclease, derived from a cold water eukaryoti organism, expressed in <i>Pichia pastoris</i> . The enzym displays high specific activity towards double-strande DNA leaving single-stranded DNA or RNA undamaged i standard conditions. Masterase can be easily inactivate by heat treatment in moderate temperatures. It i intended for applications where the presence of dsDN influences experiments' results in thermo-sensitiv applications. The enzyme hydrolyzes phosphodieste linkages yielding oligonucleotides with a 5'-phosphat and a3'-hydroxylgroups.	
	2500 U (2 U/μl)	EN31-025		
<b>DNaseMe</b> (dsDNase)	5000 U (20 U/μl)	EN33-050	DNaseMe is a 42.8 kDa recombinant endonucleas derived from marine amphipods, expressed in <i>Pich pastoris</i> . The enzyme displays high specific activit towards double-stranded DNA leaving single-strande DNA or RNA undamaged in standard conditions. DNaseM is highly active in a broad spectrum of temperature buffer conditions and pH. Thespecific activity is similic to bovine DNase I however, DNaseMe is characterize by higher stability in demanding reaction and storag conditions (e.g.high salt and detergent containing buffer elevated temperature). These features make DNaseM extremely useful for rapid and "RNA safe" degradation of genomic DNA, where absence of ribonucleases is critic to maintain the integrity of RNA. The enzyme hydrolyze phosphodiester linkages yielding oligonucleotides with a5'-phosphate and a3'-hydroxyl groups.	
	25000 U (20 U/μl)	EN33-250		
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 RNaseA 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 (5U/μl)	RT34-025	RNase H is a 18.9 kDa recombinant endoribonuclease, which hydrolyses specifically the phosphodiester bonds of RN hybridized to DNA. The enzymes does not degrade single and ouble-stranded DNA or unhybridized RNA. Itis a key enzymin the removal of mRNA after first-strand cDNA synthesi Treating cDNA with RNase H prior to PCR can improve sensitivity as RNA bonded to the cDNA template may preveibinding of the amplification primers in a PCR reaction.	
	1250 U (5U/μl)	RT34-125		



Product Name	Pack Size	Cat. No.	Description
Other Enzymes	Proteins		
T4 DNA Ligaço	500 U	EN11-050	ATP-dependent recombinant enzyme used fo molecular cloning, site-directed mutagenesis, nic repair in duplex DNA, RNA or DNA/RNA hybrids Ligation Mediated PCR; concentration 5 U/µl WeissU.
T4 DNA Ligase	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 minute respectively. PEG included.
Quant Ingest	150 rxns	EN12-150	
Tth DNA Ligaço	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 gare between them. Therefore, a single-base substitutic can be detected. High thermostability allows ligation using high-stringency hybridization condition High specificity and stringency permits sensitive detection of SNPs. Equivalent of Ampligase (Epicentre).
Tth DNA Ligase	2500 U (37 500 CEU) (5 U/μl)	EN13-250	
UDGase	500 U	EN19-050	Uracil DNA Glycosylase (UDG) catalyzes the releas of uracil from uracil-containing single-strande or double-stranded DNA, but not from RNA oligonucleotides. Widely used to control carry-ov-contamination in PCR; concentration 1U/µl.
Obdase	2500 U	EN19-250	
phi29 DNA Polymerase	1000 U (10U/μl)	EN20-010	Very processive polymerase (up to 70 kb) with stron strand displacement activity, which allows for highl efficient isothermal DNA amplification; possesse a 3'-5' exonuclease (proofreading) activity actin preferentially on ssDNA or RNA, therefore 3'-mooified primers are recommended.
	5000 U (10U/μl)	EN20-050	
TRANSCRIPTME Reverse Transcriptase	10000 U (200U/μl)	RT32-010	Modified M-MuLV Reverse Transcriptase; 10pg-5; of total RNA; concentration 200 U/µl; hasincrease thermal stability (optimum activity at50°C); has a 3'→5' exonuclease and reduced RNase H activity which improves the synthesis of a full-length cDN even from long mRNA templates, using rando priming; gives high yields of first strand cDNA to7kblong.
	50000 U (200U/μl)	RT32-050	
TRANSCRIPTME LYO Reverse Transcriptase	100 000 U	RT32L-100	Lyophilized version of M-MuLV Reverse Transcripta: increased thermal stability, that allows the reactito be carried out at a higher temperature (optimu activity at 50°C); has no 3'→5' exonuclease or RNa H activity, which improves the synthesis of a fulength cDNA, even from long mRNA templates, usirandom priming; gives high yields of first strand cDI up to 7 kb long.



Product Name	Pack Size	Cat. No.	Description				
Other Enzymes & Proteins							
	2000 U (40U/μl)	RT35-020	RIBOPROTECT 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. 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,				
RIBOPROTECT Hu RNase Inhibitor IMPROVED STABILITY!	10000 U (40U/μl)	RT35-100					
	40 U/μl	RT35-B (bulk)	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 – 1mM DTT concentration ranges.				
RIBOPROTECT Hu	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				
RNase Inhibitor <b>Lyo-ready</b>	40 U/μl	RT35L-B (bulk)	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.				



#### Fit for customer needs

To create a perfect fit for your needs, we offer tailor-made reagents obtained through fine-tuning of their formulation, changes in the fermentation process, and preparation of dedicated QC and CoA. We operate in various business models, such as a CMO and distributor supply. Our company also handles product preparation for OEM and white labelling needs, as well as additional services, such as production batch booking, product portioning, and labeling.



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