Reagents for molecular biology



catalogue 2023/2024

About us



KleverLab LLC is a manufacturer of the various types of enzymes for different applications in molecular biology and molecular diagnostic including polymerases and revertases, hot-start enzymes, enzymes for NGS, proteinase K, RNase inhibitors and many other reagents for PCR and nucleic acid isolation. We also produce ready-to-use mixtures for PCR and one-step RT-PCR. These reagents are high sensitive, resistant to inhibition and useful for a wide range of the samples.

Based on our products we develop and produce PCR kits for human and veterinary diagnostic. KleverLab's kits are high specific and sensitive and can be stored without freezing. Additionally, they possess increased resistance to inhibitors and protection against possible carryover contamination.

Our high-qualified team develops customized solutions and optimizes products for the customer needs. KleverLab LLC is European biotech company based in Warsaw.

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KleverTest COVID-19 Express Kit

Kit for the fast qualitative detection of SARS-CoV-2 RNA by one-step Real-Time PCR assay without RNA isolation.

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Benefits:

No RNA purification required
Analyzing time up to 60 minutes (from samples to results)
High sensitivity (up to 95.0%)
High specificity (up to 99.9%)
Limit of detection - 10 copies/reaction

Area of applications:

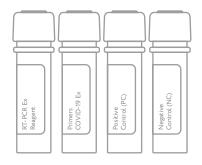
SARS-CoV-2 detection

Storage and transportation conditions:

Up to 7 days at a temperature < +25°C
From +2°C to +8°C - 30 days
From -24°C to -16°C - 1 year
10 freeze/thaw cycles are allowed

KleverTest COVID-19 Express Kit was designed for fast SARS-CoV-2 detection without preliminary RNA samples isolation and purification. Clinical samples (in a saline or PBS transport media) can be used directly for subsequent amplification.

KleverTest COVID-19 Express Kit was validated for the following Real-Time PCR instruments: Mx 3005P[™] QPCR System (Agilent), Rotor-eGene[®] 6000 (Corbett Research), Rotor-Gene[®] Q5/6 plex Platform (QIAGEN), CFX96[™] Systems (Bio-Rad). KleverTest COVID-19 Express Kit primers and probes sets are designed to detect RNA from the SARS CoV-2 N genes (HEX/Yellow channel) and RNase P internal control DNA (FAM/Green channel). KleverTest COVID-19 Express assay primer and probe sequences are identical to the FDA EUA authorized CDC 2019-nCoV Real-Time RT-PCR Diagnostic Panel. An additional *in silico* analysis assessing the impact of the recently emerged SARS-CoV-2 variants on target detection by KleverTest COVID-19 showed that none of the observed mutations would be expected to interfere with N genes detection.



RKH-SA-100 100 reactions

KleverTest Chlamydia Trachomatis PCR Kit

Kit for the fast qualitative detection of *Chlamydia trachomatis* DNA by qPCR.

Benefits:

- High specificity (up to 99.9%)
- Limit of detection 100 copies/ml
- Can be stored from +2°C to +8°C for 12 months
- Contains UDG and dUTP eliminating possible

carryover contamination

Area of applications:

Chlamydia trachomatis DNA detection

Storage and transportation conditions:

 Up to 14 days at a temperature < +25°C From +2°C to +8°C – 12 months • From -24°C to -16°C - 12 months · 10 freeze/thaw cycles are allowed

KleverTest Chlamydia Trachomatis PCR Kit is an *in vitro* diagnostic kit designed for the fast qualitative detection of Chlamydia trachomatis DNA in the clinical materials (urogenital, rectal and oropharyngeal swabs, conjunctival discharge, urine and prostate gland secretion) by real-time hybridization-fluorescence detection of amplified products. The sensitivity of the kit is 100 genome equivalent copies of Chlamydia trachomatis DNA per 1 ml of sample. KleverTest Chlamydia Trachomatis PCR Kit is validated for the following real-time PCR instruments: Mx 3005P[™] QPCR System (Agilent), Rotor-Gene[®] 6000 (Corbett Research), Rotor-Gene[®] Q5/6 plex Platform (QIAGEN), CFX96[™] Systems (Bio-Rad).

KleverTest Neisseria Gonorrhoeae PCR Kit

Kit for the fast qualitative detection of Neisseria gonorrhoeae DNA by qPCR.

Benefits:

- High specificity (up to 99.9%)
- Limit of detection 1000 copies/ml
- Can be stored from +2°C to +8°C for 12 months Contains UDG and dUTP eliminating possible

carryover contamination

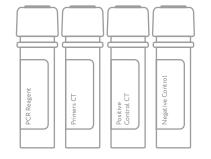
Area of applications:

Neisseria gonorrhoeae DNA detection

Storage and transportation conditions:

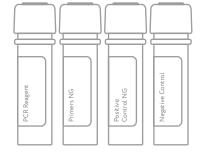
 Up to 14 days at a temperature < +25°C • From +2°C to +8°C – 12 months From -24°C to -16°C - 12 months · 10 freeze/thaw cycles are allowed

KleverTest Neisseria Gonorrhoeae PCR Kit is an in vitro diagnostic kit designed for the fast qualitative detection of Neisseria gonorrhoeae DNA in the clinical materials (urogenital, rectal and oropharyngeal swabs, urine and prostate gland secretion) by real-time hybridization-fluorescence detection of amplified products. The sensitivity of the kit is 1000 genome equivalent copies of Neisseria gonorrhoeae DNA per 1 ml of sample. KleverTest Neisseria Gonorrhoeae PCR Kit is validated for the following real-time PCR instruments: Mx 3005P[™] QPCR System (Agilent), Rotor-Gene[®] 6000 (Corbett Research), Rotor-Gene[®] Q5/6 plex Platform (QIAGEN), CFX96[™] Systems (Bio-Rad).



RKH-CHT-100 100 reactions

140 €



RKH-NSG-100 100 reactions



KleverTest Trichomonas Vaginalis PCR Kit

Kit for the fast qualitative detection of Trichomonas vaginalis DNA by qPCR.

Benefits:

- High specificity (up to 99.9%)
- Limit of detection 100 copies/ml
- Can be stored from + 2 to + 8°C for 12 months • Contains UDG and dUTP eliminating possible
- carryover contamination

Area of applications:

Trichomonas vaginalis DNA detection

Storage and transportation conditions:

Up to 14 days at a temperature < +25°C
From +2°C to + 8°C - 12 months
From -24°C to -16°C - 12 months
10 freeze/thaw cycles are allowed

KleverTest Trichomonas Vaginalis PCR Kit is an *in vitro* diagnostic kit designed for the fast qualitative detection of *Trichomonas vaginalis* DNA in the clinical materials (urogenital swabs, urine and prostate gland secretion) by real-time hybridization-fluorescence detection of amplified products. The sensitivity of the kit is 100 genome equivalent copies of *Trichomonas vaginalis* DNA per 1 ml of sample. KleverTest Trichomonas Vaginalis PCR Kit is validated for the following real-time PCR instruments: Mx 3005P[™] QPCR System (Agilent), Rotor-Gene[®] 6000 (Corbett Research), Rotor-Gene[®] Q5/6 plex Platform (QIAGEN), CFX96[™] Systems (Bio-Rad).

Genitalium PCR Kit

Kit for the fast qualitative detection of Mycoplasma genitalium DNA by qPCR.

KleverTest Mycoplasma

Benefits:

- High specificity (up to 99.9%)
- Limit of detection 1000 copies/ml
- \cdot Can be stored from +2°C to +8°C for 12 months
- $\boldsymbol{\cdot}$ Contains UDG and dUTP eliminating possible carryover contamination

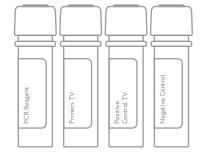
Area of applications:

Mycoplasma genitalium DNA detection

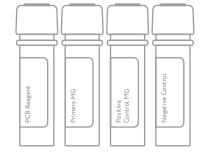
Storage and transportation conditions:

- Up to 14 days at a temperature < +25°C
 From +2°C to +8°C 12 months
 From -24°C to -16°C 12 months
- 10 freeze/thaw cycles are allowed

KleverTest Mycoplasma Genitalium PCR Kit is an *in vitro* diagnostic kit designed for the fast qualitative detection of *Mycoplasma genitalium* DNA in the clinical materials (urogenital swabs, urine and prostate gland secretion) by real-time hybridization-fluorescence detection of amplified products. The sensitivity of the kit is 1000 genome equivalent copies of *Mycoplasma genitalium* DNA per 1 ml of sample. KleverTest Mycoplasma Genitalium PCR Kit is validated for the following real-time PCR instruments: Mx 3005PTM QPCR System (Agilent), Rotor-Gene[®] 6000 (Corbett Research), Rotor-Gene[®] Q5/6 plex Platform (QIAGEN), CFX96TM Systems (Bio-Rad).



RKH-TRV-100 100 reactions 140 €



RKH-MCG-100 140 € 100 reactions



KleverTest Human Papilloma Virus 16/18 PCR Kit

Kit for the fast qualitative detection of Human Papilloma Virus 16/18 types DNA by qPCR.

Benefits:

- High specificity (up to 99.9%)
- Limit of detection 1000 copies/ml
- Can be stored from +2°C to +8°C for 12 months
 Containes UDG and dUTP eliminating possible

carryover contamination

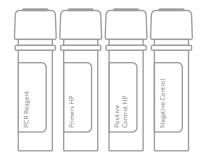
Area of applications:

• Human Papilloma Virus 16/18 types DNA detection

Storage and transportation conditions: • Up to 14 days at a temperature < +25°C

• From +2°C to + 8°C – 12 months • From -24°C to -16°C – 12 months • 10 freeze/thaw cycles are allowed

KleverTest Human Papilloma Virus 16/18 PCR Kit is an *in vitro* diagnostic kit designed for the fast qualitative detection of *Human Papilloma Virus* 16/18 typies DNA in the clinical materials (urogenital swabs) by real-time hybridization-fluorescence detection of amplified products. The sensitivity of the kit is 1000 genome equivalent copies of *Human Papilloma Virus* 16/18 types DNA per 1 ml of sample. KleverTest Human Papilloma Virus 16/18PCR Kit is validated for the following real-time PCR instruments: Mx 3005P[™] QPCR System (Agilent), Rotor-Gene[®] 6000 (Corbett Research), Rotor-Gene[®] Q5/6 plex Platform (QIAGEN), CFX96[™] Systems (Bio-Rad).



RKH-HMP-100 100 reactions 140 €

KleverTest African Swine Fever Virus PCR Kit

Kit for the fast qualitative detection of African Swine Fever DNA by qPCR.

Benefits:

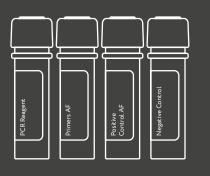
High specificity (up to 99.9%)
Limit of detection – 1000 copies/ml
Can be stored from +2°C to +8°C for 12 months
Containes UDG and dUTP eliminating possible carryover contamination

Area of applications: • African Swine Fever Virus DNA detection

Storage and transportation conditions:

Up to 14 days at a temperature < +25°C
From +2°C to +8°C - 12 months
From -24°C to -16°C - 12 months
10 freeze/thaw cycles are allowed

KleverTest African Swine Fever Virus PCR Kit is an *in vitro* diagnostic kit designed for the fast qualitative detection of ASF Virus DNA in the clinical materials (serum, plasma and tissue samples from pig and wild boar) by real-time hybridization-fluorescence detection of amplified products. The sensitivity of the kit is 1000 genome equivalent copies of ASF Virus DNA per 1 ml of sample. KleverTest African Swine Fever Virus PCR Kit is validated for the following real-time PCR instruments: Mx 3005P[™] QPCR System (Agilent), Rotor-Gene[®] 6000 (Corbett Research), Rotor-Gene[®] Q5/6 plex Platform (QIAGEN), CFX96[™] Systems (Bio-Rad).



RKV-ASF-100 100 reactions

140 €

lever lab



PuriMag P Total DNA/RNA Isolation Kit

Kit for isolation of total DNA/RNA from blood plasma and serum based on magnetic beads.

Benefits:

- NA recovery > 75%
- Useful in manual and automatic modes

Area of applications: • NA isolation and purification

Storage and transportation conditions: • From +2°C to +25°C – 1 year

140 €

PuriMag S Total DNA/RNA Isolation Kit

Kit for isolation of total DNA/RNA from clinical materials based on magnetic beads.

Benefits:

- NA recovery > 75%
- Useful in manual and automatic modes

Area of applications: • NA isolation and purification

Storage and transportation conditions: • From +2°C to +25°C - 1 year

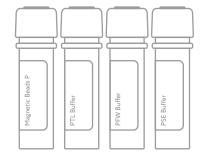
PuriMag P Total DNA/RNA Isolation Kit was directly designed for the extraction of total DNA/RNA from plasma and serum which contains low titer of pathogenic microorganisms. Isolated DNA/RNA is suitable for further molecular biological studies, including qPCR and RT-PCR. PuriMag P Total DNA/RNA Isolation Kit is designed to perform assays of 100 samples with a volume of 100 µl. NA recovery is dependent upon sample type and is typically greater than 75%. The sensitivity of the system is 500 copies/ml of MS2 phage target in plasma.

PuriMag P Total DNA/RNA Isolation Kit allows to purify DNA/RNA both in manual mode (use magnetic rack for single tubes 1.5-2.0 ml) and in automatic mode using robotic stations.

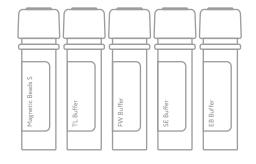
PuriMag S Total DNA/RNA Isolation Kit is intended for isolation of total DNA/RNA from smears of the urogenital, respiratory and digestive tracts. Isolated DNA/RNA is suitable for further molecular biological studies, including qPCR and RT-PCR.

PuriMag S Total DNA/RNA Isolation Kit is designed to perform assays of 100 samples with a volume of 100 μ L. NA recovery is dependent upon sample type and is typically greater than 75%. The sensitivity of the system is 500 copies/ml of MS2 phage target in PBS solution.

PuriMag S Total DNA/RNA Isolation Kit allows to purify DNA/RNA both in manual mode (use magnetic rack for single tubes 1.5-2.0 ml) and in automatic mode using robotic stations.



RKI-PMP-100 100 reactions



RKI-PMS-100 1 100 reactions

5X Direct One-Step RT-PCR Mastermix

Ready-to-use mastermix for one-step RT-PCR assay without preliminary RNA isolation and purification.

Storage and transportation conditions:

• Up to 7 days at a temperature < +4°C

• From -24°C to -16°C – 1 years

Benefits:

High sensitivity (single copies of RNA)
Synthesis of cDNA and PCR is carried out in one tube
Increased inhibition resistance

Area of applications:

Multiplex RT-PCR
 Routine RT-PCR
 Low copy RT-PCR
 RT-PCR with dual-labelled probes

5X Direct One-Step RT-PCR Mastermix is a ready-to-use universal reagent for the synthesis of cDNA on RNA matrix with the following polymerase chain reaction with real time identification of products (RT- PCR). Synthesis of cDNA and qPCR assay is carried out in one tube. Clinical samples (in a saline or PBS transport media) can be used directly for subsequent amplification. The reagent provides reproducible results with high sensitivity (single copies of RNA) in RT-PCR. Mastermix is recomended for direct SARS-CoV 2 detection. 5X Direct One-Step RT-PCR Mastermix contains all the necessary components for PCR assay, including: "warm-start" reverse transcriptase, hot-start thermostable DNA polymerase and optimized buffer. dNTP 25 mM solution supplied in separate tube. Due to some genetic modifications of MMLV reverse transcriptase has inhibited RNase H activity, improved thermostability and increased productivity with GC-rich RNA matrix, resulting in the higher cDNA yield. Hot-start inactivated DNA polymerase of the mastermix does not possess any enzymatic activity during PCR mix preparation and reverse transcription that lead to significant increase of sensitivity and specificity of the assay. Special additives provide increased resistance to inhibitors and allow to use clinical samples without preliminary purification.

M5-DOS-0.25R ≎ 250 reactions, 1x1.25 ml	300€	M5-DOS-5R[‡] 5 000 reactions, 20x1.25 ml	3 600 €
M5-DOS-0.5R ≎ 500 reactions, 2x1.25 ml	530€	M5-DOS-10R ≎ 10 000 reactions, 50 ml	7 600 €
M5-DOS-1R≎ 1 000 reactions, 4x1.25 ml	950€	M5-DOS-FS≎ free sample	0€

5X One-Step RT-PCR Mastermix

Ready-to-use mastermix for RT-PCR. The reaction is carried out in one tube. Ideal solution for one-step detection of RNA viruses.

Benefits:

High sensitivity (single copies of RNA)
Synthesis of cDNA and PCR is carried out in one tube
Increased inhibition resistance

Area of applications:

Multiplex RT-PCR
 Routine RT-PCR

- RT-PCR with dual-labelled probes

Storage and transportation conditions:

From -24°C to -16°C - 2 years
Up to 7 days at a temperature < +4°C
10 freeze/thaw cycles are allowed

5X One-Step RT-PCR Mastermix is a ready-to-use universal reagent for the synthesis of cDNA on RNA matrix with the following polymerase chain reaction with real time identification of products (RT-PCR). Synthesis of cDNA and qPCR assay is carried out in one tube. The reagent provides reproducible results with high sensitivity (single copies of RNA) in RT-PCR. 5X One-Step RT-PCR Mastermix contains all the necessary components for PCR assay, including: «warm-start» reverse transcriptase, hot-start thermostable DNA polymerase, dNTP and optimized buffer. Due to some genetic modifications of MMLV reverse transcriptase has inhibited RNase H activity, improved thermostability and increased productivity with GC-rich RNA matrix, resulting in the higher cDNA yield. Hot-start inactivated DNA polymerase of the mastermix does not possess any enzymatic activity during PCR mix preparation and reverse transcription that lead to significant increase of sensitivity and specificity of the assay. Special additives provide increased resistance to inhibitors.

	M5-OS-0.25 250 reactions, 1x1.25 ml	250 €	M5-OS-5 5 000 reactions, 20x1.25 ml	3 600 €
	M5-OS-0.5 500 reactions, 2x1.25 ml	450€	M5-OS-10 10 000 reactions, 50 ml	6 000 €
lastermix	M5-OS-1 1 000 reactions, 4x1.25 ml	800€	M5-OS-FS free sample	0€

*supplied with 25 mM dNTP mix



2X Fast Dye qPCR Mastermix

Ready-to-use mastermix for qPCR with intercalating dyes.

Benefits:

- High sensitivity (single copies of DNA)
- Increased inhibition resistance

Area of applications:

PCR with intercalating dye

Storage and transportation conditions: • From -24°C to -16°C - 2 years Up to 14 days at a temperature < + 8°C • Repeated freezing and thawing is not recommended

2X Fast Dye gPCR Mastermix is a versatile, ready-to-use reagent for real time polymerase chain reaction (gPCR) with intercalating dye. The solution contains substances that increase half-life and processivity of Taq DNA polymerase by enhancing its stability during PCR.

2X Fast Dye qPCR Mastermix contains DNA polymerase inactivated by antibodies, which does not exhibit enzymatic activity during reaction mixture preparation, which leads to increasing of reaction specificity and sensitivity. Enzyme activation occurs automatically during the first cycle of DNA denaturation. Optionally Mastermix can contains ROX reference dye (final concentration is 0.5 µM (High ROX) or 0.03 µM (Low ROX) depending of qPCR instrument).

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2X Fast Dye qPCR Mastermix	

M2-FD-0.25 250 reactions, 2x1.25ml	95€
M2-FD-0.5 500 reactions, 4x1.25ml	170€
M2-FD-1 1 000 reactions, 8x1.25ml	250€
M2-FD-5	995€

M2 5 000 reactions, 50 ml

M2-FD-10 10 000 reactions, 100 ml	1900€
M2-FD-50 50 000 reactions, 5x100 ml	7 600 €
M2-FD-FS free sample	0€

2X Fast Dye qPCR U Mastermix

Ready-to-use mastermix for qPCR with intercalating dyes, additionally contains UDG to prevent false-positives results.

Benefits:

- High sensitivity (single copies of DNA)
- Increased inhibition resistance
- Prevention of false-positive results

Area of applications:

PCR with intercalating dye

Storage and transportation conditions:

• From -24°C to -16°C - 2 years • Up to 14 days at a temperature < + 8°C Repeated freezing and thawing is not recommended

2X Fast Dye qPCR U Mastermix is a versatile, ready-to-use reagent for real-time polymerase chain reaction with intercalating dye. The solution contains substances that increase half-life and processivity of Taq DNA polymerase by enhancing its stability during PCR. Presence of dUTP in the reaction mixture leads to the fact that all the amplification products will contain uracil in their composition. In this case, UDG in the new PCR run effectively hydrolyses uracil from single- and double-stranded DNA molecules during the reaction setup, thus preventing carry-over contamination by amplicon of preceding PCR and obtaining false-positive results. UDG is inactivated during the first DNA denaturation cycle and does not interfere with the amplification of the products of the current reaction.

2X Fast Dye gPCR U Mastermix contains DNA polymerase inactivated by antibodies, which does not exhibit enzymatic activity during reaction mixture preparation, which leads to increasing of reaction specificity and sensitivity. Enzyme activation occurs automatically during the first cycle of DNA denaturation. Optionally Mastermix can contains ROX reference dye (final concentration is 0.5 µM (High ROX) or 0.03 µM (Low ROX) depending of qPCR instrument).

M2-FDU-0.25 250 reactions, 2x1.25ml	105€	M2-FDU-10 10 000 reactions, 100 ml	2 100 €
M2-FDU-0.5 500 reactions, 4x1.25ml	190 €	M2-FDU-50 50 000 reactions, 5x100 ml	8 400 €
M2-FDU-1 1 000 reactions, 8x1.25ml	280€	M2-FDU-FS free sample	0€
M2-FDU-5 5 000 reactions, 50 ml	1100€		





5X Fast Probe qPCR Mastermix

Ready-to-use mastermix for qPCR with fluorescent probes.

Benefits:

- High sensitivity (single copies of DNA)
- Increased inhibition resistance
- Stable at temperatures of +2°C +8°C

Area of applications:

- Multiplex PCR
- Routine PCR
- · Low copy PCR
- PCR with dual-labelled probes

Storage and transportation conditions:

From -24°C to -16°C - 2 years
From +2°C to +8°C - 12 months
Up to 30 days at a temperature < +25°C
20 freeze/thaw cycles are allowed

5X Fast Probe qPCR Mastermix is a universal ready-to-use reagent for quantitative and/or qualitive PCR with real-time detection of the results. The qPCR Mix contains optimized components and inactivated DNA polymerase supplied in a proprietary reaction buffer. 5X Fast Probe qPCR Mastermix is optimized for DNA/LNA hydrolysis probes based on the 5´-3´-exonuclease activity. DNA Polymerase is activated by 2 min incubation step at 95°C. This prevents extension of non-specific annealed primers and primer-dimers formed at low temperatures during qPCR setup.

5X Fast Probe qPCR Mastermix consists of the following components:

- thermostable DNA polymerase with a hot-start;

- dNTP;

- optionally ROX reference dye (final concentration is 0.5 μ M (High ROX) or 0.03 μ M (Low ROX) depending of qPCR instrument);

- MgCl₂ (final concentration is 5 mM);

- optimized buffer.

	M5-FP-0.25 250 reactions, 1x1.
2	M5-FP-0.5 500 reactions, 2x1
5X Fast Probe qPCR	M5-FP-1
Mastermix	1 000 reactions, 4
5X Fas	M5-FP-5
Maste	5 000 reactions, 20

.25 ml	95€	M5-FP-10 10 000 react	cie
1.25 ml	170 €	M5-FP-50 50 000 react	ti
x1.25 ml	250€	M5-FP-FS free sample	

15-FP-5 995 € 000 reactions, 20x1.25 ml

M5-FP-10 10 000 reactions, 50 ml	1900€
M5-FP-50 50 000 reactions, 5x50 ml	7 600 €
M5-FP-FS free sample	0€

5X Fast Probe qPCR U Mastermix

Ready-to-use mastermix for qPCR with fluorescent probes, additionally contains UDG to prevent false-positives results.

Benefits:

- \cdot High sensitivity (single copies of DNA)
- Increased inhibition resistance
- Prevention of false-positive results
- Stable at temperatures of +2°C +8°C

Area of applications:

- Multiplex PCR
- Routine PCR
- Low copy PCR
- PCR with dual-labelled probes

Storage and transportation conditions:

From -24°C to -16°C - 2 years
From +2°C to +8°C - 12 months
Up to 30 days at a temperature < +25°C
20 freeze/thaw cycles are allowed

5X Fast Probe qPCR U Mastermix is a ready-to-use reagent for real-time polymerase chain reaction (qPCR) with fluorescent probes. The reagent contains the following components: thermostable hot start DNA polymerase, dNTP (including dUTP), uracil-DNA-glycosylase (UDG), optimized buffer for qPCR. The using of inactivated DNA polymerase, which does not possess enzymatic activity under the conditions of PCR mixture preparation, leads to an increase in the specificity and sensitivity of the reaction. Enzyme activation occurs automatically during the first cycle of DNA denaturation. The presence of dUTP in the reaction mixture leads to the fact that all amplification products will contain uracil. In this case, UDG effectively hydrolyzes uracil from single- and double-stranded DNA molecules during the preparation of the reaction, thus preventing the amplification of the products of previous PCR (amplicons). It helps to avoid false-positive results. UDG is completely inactivated during PCR and does not interfere with the amplification of the products of the current reaction. Special additives provide increased resistance to inhibitors. Mastermix can also contain reference dye ROX (final concentration is 0.5 μ M (High ROX) or 0.03 μ M (Low ROX) depending on gPCR instrument).

M5-FPU-0.25 250 reactions, 1x1.25ml	105€	M5-FPU-10 10 000 reactions, 50 ml	2 100 €
M5-FPU-0.5 500 reactions, 2x1.25ml	190€	M5-FPU-50 50 000 reactions, 5x50 ml	8 400 €
M5-FPU-1 1 000 reactions, 4x1.25ml	280€	M5-FPU-FS free sample	0€
M5-FPU-5 5 000 reactions, 20x1.25 m	1100€ l		

RevM First Strand cDNA Synthesis Kit

RevM First Strand cDNA Synthesis Kit is a complete kit of reagents for efficient synthesis of first strand cDNA from mRNA or total RNA templates.

Benefits:

High yields of full-length first strand cDNA up to 10 kb
Optimal reaction temperature is 55°C
Supplied with the RNase Inhibitor
Supplied with Oligo(dT)18 and random hexamer primers

Area of applications:

First strand cDNA synthesis for RT-PCR and real-time RT-PCR
Full length cDNA libraries construction
Antisense RNA synthesis

Storage and transportation conditions: • From -24°C to -16°C - 2 years • From +2°C to +8°C - 3 months • Up to 14 days at a temperature < +25°C

RevM First Strand cDNA Synthesis Kit is a complete kit of reagents for efficient synthesis of first strand cDNA from mRNA or total RNA templates. Kit based on RevM Revertase - genetically modified reverse transcriptase from murine leukemia virus (M-MuLV). The enzyme possesses RNA- and DNA-dependent polymerase activity but lacks RNase H activity. Temperature optimum for RevM enzyme activity is 55°C (the enzyme remains active at temperatures up to 60°C). The enzyme is able to synthesize first strand cDNA up to 10 kb and incorporate modified bases. RevM First Strand cDNA Synthesis Kit contains recombinant RNase inhibitor, which inhibit ribonuclease activity and protects RNA integrity from degradation. The Kit is also supplied with both oligo(dT)18 and random hexamer primers. Gene-specific primers may also be used with this kit.



RK-RFS-50 50 reactions	125 €
RK-RFS-100 100 reactions	225€
RK-RFS-500 500 reactions	900€
RK-RFS-1000 1 000 reactions	1 620 €
RK-RFS-FS free sample	0€

2X Blitz Mastermix

Ready-to-use mastermix for PCR with increased synthesis accuracy and resistance to inhibitors. Suitable for preparation of NGS libraries.

Benefits:

Increased DNA synthesis rate (up to 3 000 bp/min)
Long fragments amplification (10 kbp or longer)
Increased inhibition resistance

Area of applications:

PCR with increased synthesis accuracy
Amplification of long DNA fragments
NGS libraries preparation

Storage and transportation conditions:

From -24°C to -16°C - 2 years
Up to 7 days at a temperature < +25°C
10 freeze/thaw cycles are allowed

2X Blitz Mastermix is a ready-to-use mixture for polymerase chain reaction (PCR) with increased accuracy of DNA synthesis. Mastermix contains all the necessary components for PCR, including: thermostable DNA polymerase, dNTP and optimized buffer. The DNA polymerase included in the Blitz mastermix is a chimeric thermostable protein consisting of Pfu polymerase and SSO7d DNA-binding domain. The DNA-binding domain stabilizes the complex of DNA polymerase with the template, that leads to an increase in the processivity, synthesis rate, accuracy and stability of the enzyme in a high ionic strength of the solution. The mastermix has an increased rate of DNA synthesis (up to 3 000 bp/min) and is capable of amplifying DNA fragments longer than 10 000 bp.

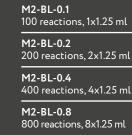
170 €

320€

575€

1040€





M2-BL-2 2 000 reactions, 25 ml	2 400 €
M2-BL-4 4 000 reactions, 50 ml	4 400 €
M2-BL-FS free sample	0€

20

Diamant Tag DNA Polymerase

Recombinant Tag DNA Polymerase.

Benefits:

Amplification of PCR fragments up to 5 000 bp

Area of applications: Routine PCR

Concentration:

from 5 to 1000 units/ul

Storage and dilution buffer: · 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA, 100 mM KCl, 50% glycerol, 0.5% Tween-20

Storage and transportation conditions: • From -24°C to -16°C – 3 years • Up to 30 days at a temperature < +25°C

Diamant TaqA DNA Polymerase

Hot-start Tag DNA polymerase with activation temperature above 37°C.

Benefits:

 Amplification of PCR fragments up to 5 000 bp Stable at +2°C – +8°C up to 6 month

Area of applications:

- Multiplex PCR
- Routine PCR
- · Low copy PCR
- PCR with dual-labelled probes
- PCR with intercalating dyes

Concentration:

5 units/µl (5-100 units/µl upon request)

Storage and dilution buffer:

· 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA. 100 mM KCl, 50% glycerol, 0.5% Tween-20

Storage and transportation conditions:

• From -24°C to -16°C – 3 years From +2°C to +8°C – 6 months Up to 30 days at a temperature < +25°C

Diamant Taq DNA Polymerase is a 94 KDa thermostable protein isolated from a recombinant E. coli strain bearing the polA gene of the Thermus aquaticus YT1 polymerase. The enzyme catalyses' synthesis (replication) of DNA chain in direction from 5'- to 3'-end and does not perform corrective 3'-5'-exonuclease activity. In addition, this enzyme possesses tdeoxynucleotidyl transferase activity (TdT), which leads to the connection of an additional residue dA at the 3'-end of the PCR product. The enzyme is highly purified by affinity and anion-exchange chromatography. Diamant Tag DNA Polymerase can be supplied in glycerol and detergent free buffer for the subsequent lyophilization upon request.

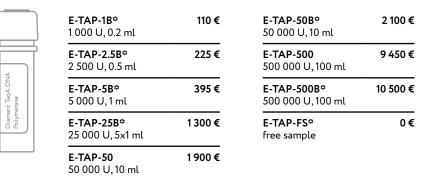
Diamant TagA DNA Polymerase is a high quality hot-start polymerase with superior sensitivity and specificity compared to native Taq polymerase.

The reagent is composed of high-purified recombinant Tag DNA polymerase and specific low-molecular weight aptamer which inhibits enzymatic activity of polymerase at room temperature. According to our tests, the polymerase keeps inactive during the incubation with a substrate for about 1 hour at 37°C. Activation of the enzyme starts automatically during the first cycle of DNA denaturation. Due to original storage buffer the reagent can be stored at $+2^{\circ}C - +8^{\circ}C$ for 6 months without significant changes in activity and inactivation.

E-TP-2.5B ≎ 2 500 U, 0.5
E-TP-5B≎ 5 000 U,1 ml
E-TP-25B≎ 25 000 U, 5x
E-TP-100 100 000 U, 2

TP-2.5B≎ 500 U, 0.5 ml	115€	E-TP-100B≎ 100 000 U, 20 ml
TP-5B≎ 000 U,1ml	195€	E-TP-1000 1 000 000 U, 4x50 m
TP-25B≎ 5 000 U, 5x1 ml	750€	E-TP-1000B≎ 1 000 000 U, 4x50 m
TP-100 0 000 U, 20 ml	1850€	E-TP-FS ¢ free sample

E-TP-100B[¢] 100 000 U, 20 ml	2 100 €
E-TP-1000 1 000 000 U, 4x50 ml	8 900 €
E-TP-1000B≎ 1 000 000 U, 4x50 ml	9 900 €
E-TP-FS* free sample	0€



*supplied with 10X PCR buffer and 50mM MgCl₂

* supplied with 10X PCR buffer and 50mM MgCl₂

Diamant TaqD DNA Polymerase

Hot-start Tag DNA polymerase with activation temperature above 55°C.

Benefits:

 Amplification of PCR fragments up to 5 000 bp Suitable for one-step RT-PCR

Area of applications:

- Multiplex PCR
- Routine PCR
- Low copy PCR
- PCR with dual-labelled probes
- PCR with intercalating dyes

Concentration:

5 units/µl (5-20 units/µl upon request)

Storage and dilution buffer: · 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA, 100 mM KCl, 50% glycerol, 0.5% Tween-20

Storage and transportation conditions:

 From -24°C to -16°C – 2 years Up to 14 days at a temperature < +25°C

Diamant TaqD DNA Polymerase is a high-quality hot-start polymerase with superior sensitivity and specificity compared to native Taq polymerase. The reagent is composed of a high-purified recombinant Tag DNA polymerase and specific monoclonal antibodies which inhibits enzymatic activity of the polymerase at room temperature. According to tests, the polymerase keeps inactive during the incubation with a substrate for about 20 minutes at 55°C. Activation of the enzyme starts automatically during the first cycle of DNA denaturation.

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	Diamant TaqD DNA Polymerase	
	t TaqD rase	
	Diamant Tac Polymerase	
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E-TDP-1B≎ 1 000 U, 0.2ml	120€	E-TDP-50B ≎ 50 000 U,10
E-TDP-2.5B ≎ 2 500 U, 0.5ml	245€	E-TDP-500 500 000 U,10
E-TDP-5B≎ 5 000 U, 1ml	435€	E-TDP-500B 500 000 U,10
E-TDP-25B≎ 25 000 U, 5x1ml	1 450 €	E-TDP-FS * free sample
E-TDP-50 50 000 U, 10 ml	2 100 €	

2 300 € ml 10 500 € 100 ml 20 12 000 € 100 ml 0€

*supplied with 10X PCR buffer and 50mM MgCl₂

Diamant TaqAD DNA Polymerase

Benefits:

Concentration: 5 units/µl (5-20 units/µl upon request)

Storage and dilution buffer:

• 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA, 100 mM KCl, 50% glycerol, 0.5% Tween-20

Storage and transportation conditions:

• From -24°C to -16°C – 2 years • Up to 14 days at a temperature < +25°C

Diamant TaqAD DNA Polymerase is a high-quality hot-start polymerase with superior sensitivity and specificity compared to native Taq polymerase.

Diamant TaqAD DNA Polymerase

Hot-start Tag DNA polymerase with dual antibody/aptamer inactivation.

Amplification of PCR fragments up to 5 000 bp

Suitable for test kits with pre-amplification

Suitable for one-step RT-PCR

 PCR with dual-labelled probes • PCR with intercalating dyes

Reversible hot-start

Area of applications:

Multiplex PCR

Routine PCR

· Low copy PCR

The reagent is composed of a high-purified recombinant Tag DNA polymerase, specific low-molecular weight aptamer and antibodies which inhibits enzymatic activity of polymerase at room temperature. According to our tests, the polymerase keeps inactive during the incubation with a substrate for about 20 minutes at 55°C. Activation of the enzyme starts automatically during the first cycle of DNA denaturation. Due to aptamer the polymerase restores its re-inactivation at the end of PCR. Presence of two types of inhibitors makes it possible to use the enzyme in diagnostic RT-PCR kits with pre-amplification.

E-TADP-1B≎ 1 000 U, 0.2 ml	135€	E-TADP-50B≎ 50 000 U, 10 ml	2 550 €
E-TADP-2.5B ≎ 2 500 U, 0.5 ml	270€	E-TADP-500 500 000 U, 50 ml	11 550 €
E-TADP-5B≎ 5 000 U,1 ml	480€	E-TADP-500B ≎ 500 000 U, 50 ml	13 200 €
E-TADP-25B ≎ 25 000 U, 5x1 ml	1 595 €	E-TADP-FS* free sample	0€
 E-TADP-50 50 000 U, 10 ml	2 300 €		

*supplied with 10X PCR buffer and 50mM MgCl₂

Diamant TaqF DNA Polymerase

Hot-start Taq DNA polymerase with activation temperature above 90°C.

Benefits:

- High inactivation level
- \cdot High activity at the end of PCR

Area of applications:

- Multiplex PCR
- Routine PCR
- Low copy PCR
- PCR with dual-labelled probes
- PCR with intercalating dyes

Concentration: • 5 units/µl (5-20 units/µl upon request)

Storage and dilution buffer: • 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA, 100 mM KCl, 50% glycerol, 0.5% Tween-20

Storage and transportation conditions: • From -24°C to -16°C - 2 years

• Up to 14 days at a temperature < +4°C

Blitz DNA Polymerase

Chimeric polymerase with increased accuracy and resistance to inhibitors. Suitable for long range PCR and preparation of NGS libraries.

Benefits:

Increased DNA synthesis rate

(up to 3 000 bp/min)

• Long fragments amplification (10 kbp or longer)

Increased inhibition resistance

Area of applications:

- PCR with increased synthesis accuracy
- Amplification of long DNA fragments
- · Direct PCR without samples purifications
- NGS libraries preparation

Concentration: • 2 units/µl

Storage and dilution buffer: • 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA, 100 mM KCl, 50% glycerol, 0.5% Tween-20

Storage and transportation conditions: • From -24°C to -16°C - 2 years

• Up to 7 days at a temperature < +25°C

Diamant TaqF DNA Polymerase is a chemically modified Taq DNA polymerase. Diamant TaqF DNA Polymerase has a high inactivation level and shows no activity after its incubation for 1 hour at 60°C. Enzyme is activated by 15 min incubation step at 95°C. This prevents the extension of non-specifically annealed primers and primer-dimers formed at low temperatures during the PCR setup.

The enzyme catalyses the template-dependent polymerization of nucleotides into duplex DNA in the $5' \rightarrow 3'$ direction and also exhibits 5'-exonuclease activity.

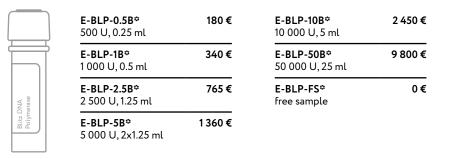
Blitz DNA Polymerase is a highly thermostable DNA polymerase from the hyperthermophilic archaeum *Pyrococcus furiosus*. The modifications of amino acid structure of the native Pfu results in shorter extension times (20 s/kb), more robust and high yield amplification, and the ability to extend long templates in a fraction of the time, making Blitz a superior choice for cloning.

This enzyme is suitable for all PCR applications requiring greater accuracy or long amplicons. The enzyme catalyzes the template-dependent polymerization of nucleotides into duplex DNA in the 5' \rightarrow 3' direction and also exhibits 3' \rightarrow 5' exonuclease (proofreading) activity, that enables the polymerase to correct nucleotide incorporation errors. It has no 5'- exonuclease activity.

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	Diamant TaqF DNA		

E-TFP-1B≎ 1 000 U, 0.2 ml	135€
E-TFP-2.5B ≎ 2 500 U, 0.5 ml	270€
E-TFP-5B≎ 5 000 U,1 ml	480€
E-TFP-25B ≎ 25 000 U, 5x1 ml	1 595 €
E-TFP-50 50 000 U, 10 ml	2 300 €

E-TFP-50B≎ 50 000 U, 10 ml	2 550 €
E-TFP-500 500 000 U, 2x50 ml	11 550 €
E-TFP-500B≎ 500 000 U, 2x50 ml	13 200 €
E-TFP-FS≎ free sample	0€



*supplied with 2.5X PCR buffer

*supplied with 10X PCR buffer and 50mM MgCl₂

RevM Revertase

MMLV Reverse Transcriptase.

Benefits:

- Effective for GC-rich RNA templates
- Optimum working temperature is 55°C
- High productivity

Area of applications:

- First strand cDNA synthesis for RT-PCR and real-time RT-PCR cDNA synthesis for cloning
- · Generation of labelled cDNA probes for
- microarrays
- RNA labelling
- RNA analysis by primer extension

Concentration:

· 200 units/µl (50-1 000 units/µl upon request)

Storage and dilution buffer:

· 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA, 100 mM KCl, 50% glycerol, 0.5% Tween-20, 1 mM TCEP

Storage and transportation conditions:

• From -24°C to -16°C - 2 years • Up to 14 days at a temperature $< +4^{\circ}C$

RevM Hot Start Revertase

MMLV Reverse Transcriptase with hot-start.

Benefits:

- Effective for GC-rich RNA templates
- Reduced activity at temperatures below 37°C
- Optimum working temperature is 55°C
- High productivity

Area of applications:

One-step RT-PCR

Concentration: 5 units/µl (5-100 units/µl upon request)

Storage and dilution buffer:

20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA, 100 mM KCl, 50% glycerol, 0.5% Tween-20, 1 mM TCEP

Storage and transportation conditions:

• From -24°C to -16°C - 2 years Up to 14 days at a temperature < +4°C

RevM Hot Start Revertase is a genetically modified reverse transcriptase of Moloney Mouse Leukemia Virus (MMLV), is intended for the synthesis of a complementary DNA strand (cDNA) on a single-stranded RNA template. Due to the presence of several mutations the enzyme possesses inhibited RNase H activity and has increased thermostability. The enzyme possesses reduced activity at temperatures below 37°C and has an optimal working temperature of 55°C. Inactivation occurs after 10 minutes at 80°C. Compared to wild-type MMLV reverse transcriptase RevM provides a higher yield of cDNA, has improved efficiency on GC-rich RNA templates and also has a higher productivity.

E-RT-25B ≎ 25 000 U, 0.125 ml
E-RT-50B ≎ 50 000 U, 0.25 ml
E-RT-500 500 000 U, 2.5 ml

*supplied with 10X reverse transcription buffer

and has higher productivity on GC-rich RNA templates.

E-RT-500B≎ 500 000 U, 2.5 ml
,
E-RT-FS* Tree sample

RevM Revertase is a genetically modified reverse transcriptase of Moloney Mouse Leukemia Virus (MMLV) which performs the synthesis of a complementary strand of DNA (cDNA) on a

single-stranded RNA template. Due to the presence of several mutations, the enzyme possesses

inhibited RNase H activity and has increased thermostability at below 65°C, with an optimal

temperature of 55°C. Compared to wild-type MMLV our enzyme provides higher cDNA yield,

80€

150 €

1 215 €

E-RTH-5B≎ 5 000 U,1 ml	90€	E-RTH-500 500 000 U, 100 ml	5 200 €
E-RTH-25B≎ 25 000 U, 5x1 ml	360€	E-RTH-500B≎ 500 000 U,100 ml	5 700 €
E-RTH-50B≎ 50 000 U,10 ml	715€	E-RTH-FS * free sample	0€

*supplied with 10X reverse transcription buffer



Proteinase K

Enzyme for protein hydrolysis in processes of nucleic acids isolation and purification.

Proteinase K (20 mg/ml)

Enzyme for protein hydrolysis in processes of nucleic acids isolation and purification.

Benefits: Broad substrate specificity Activity: • ≥ 40 units/mg

Area of applications: NA isolation and purification

E-PK-0.25

E-PK-0.5

0.25 g

0.5 g E-PK-1

1 g

Storage and transportation conditions:

 From -24°C to -16°C – 2 years • Up to 14 days at a temperature < +25°C **Benefits:** Broad substrate specificity

Area of applications: NA isolation

Concentration: • 20 mg/ml

Storage and dilution buffer: • 20 mM Tris-HCl (pH 7.5), 2 mM CaCl₂, 50% glycerol

Storage and transportation conditions: • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C

Proteinase K is 28.9 kDA serine protease produced by a recombinant strain of Pichia pastoris bearing the proteinase K gene of the fungus Tritirachium album. The enzyme has a broad substrate specificity for a large number of proteins. It hydrolyzes the polypeptide chain mainly at sites containing nonpolar amino acids. The reagent can be used for hydrolysis of proteins during the isolation and purification of nucleic acids.

Proteinase K is 28.9 kDA serine protease produced by a recombinant strain of Pichia pastoris bearing the proteinase K gene of the fungus Tritirachium album. The enzyme has a broad substrate specificity for a large number of proteins. It hydrolyzes the polypeptide chain mainly at sites containing nonpolar amino acids. The reagent can be used for hydrolysis of proteins during the isolation and purification of nucleic acids.

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	Proteinase K	

110 €	E-PK-10 10 g	2 200 €
155€	Е-РК-25 25 g	4 650 €
280€	E-PK-FS free sample	0€

	E-PKS-1 1 ml	20€	E-PKS-50 50 ml	640€
	E-PKS-5 5x1 ml	80€	E-PKS-100 100 ml	1 100 €
g/ml)	E-PKS-25 25 ml	320€	E-PKS-FS free sample	0€

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Uracil-DNA Glycosylase

Enzyme for prevention of false-positive results in PCR.

Benefits:

- · Prevents false-positive results
- Inactivated during the first PCR cycle
- Maximal activity at 37°C

Area of applications:

- Routine PCR
- Multiplex PCR
- Low copy PCR
- PCR with dual-labelled probes

PCR with intercalating dyes

Concentration:

• 5 units/µl (5-200 units/µl upon request)

Storage and dilution buffer: • 20 mM Tris-HCl (pH 8.0), 0.5 mM EDTA.

100 mM KCl, 50% glycerol, 0.5% Tween-20

Storage and transportation conditions:

• From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C

Uracil-DNA Glycosylase is an enzyme that catalyzes the hydrolysis of the N-glycosyl bond between uracil and the sugar residue in single- and double-stranded DNA. The enzyme possesses maximal activity at 37°C. Uracil-DNA Glycosylase is used in the preparation of PCR mixtures to prevent the appearance of false-positive results caused by contamination of the PCR reaction mixture with products of previously performed PCR (amplicons), which are destroyed before amplification. The enzyme is not active against RNA and short oligonucleotides. The enzyme is inactivated completely during the first cycle of DNA denaturation and does not interfere with the current reaction amplification products.

hi29 DNA Polymerase	2
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Polymerase for multiple displacement DNA amplification.

Benefits:

Isothermal amplification

- Extreme processivity
- High fidelity

Area of applications:

• Rolling circle amplification (RCA): generation of periodic DNA nanotemplates •Multiple displacement amplification (MDA) •Amplification of DNA for SNP and STR detection ·Pathogenic organisms or metagenomes •DNA template preparation for sequencing

Concentration:

•10 units/µl (5-50 units/µl upon request)

Storage and dilution buffer:

•50 mM Tris-HCl (pH 7.5), 0.1 mM EDTA. 1 mM TCEP, 100 mM KCl, 0.5% Tween-20, 50% glycerol

Storage and transportation conditions: • From -24°C to -16°C – 2 years

Phi29 DNA Polymerase is a highly processive enzyme with powerful strand displacement activity which useful for highly efficient isothermal DNA amplification. Phi29 DNA Polymerase also possesses a $3' \rightarrow 5'$ exonuclease (proofreading) activity acting preferentially on single-stranded DNA or RNA.



E-UDG-1 1 000 U, 0.2 ml	90€	E-UDG-50 50 000 U,
E-UDG-5 5 000 U, 1 ml	370€	E-UDG-FS free sampl
E-UDG-25 25 000 U, 5x1 ml	1 450 €	

50 2 600 € 10 ml s 0€ ole

E-PHI-0.25B* 50 € E-PHI-25B* 2 900 € 250 U, 0.025 ml 25 000 U, 5x0.5 ml E-PHI-1B° 180€ E-PHI-50 4 800 € 1000 U, 0.1 ml 50 000 U. 5 ml E-PHI-5B¢ 720€ E-PHI-50B° 5 200 € Phi29 DNA Polymerase 5 000 U, 0.5 ml 50 000 U, 5 ml E-PHI-FS* 0€ E-PHI-25B 2 650 € 25 000 U, 5x0.5 ml free sample

*supplied with 10x reaction buffer



dNTP Mix (25 mM each)

Mix of high-quality dNTP (25 mM each) for all types of PCR.

dNTP Mix (10 mM each)

Mix of high-quality dNTP (10 mM each) for all types of PCR.

Benefits:Purity > 98%DNases and RNases free

Area of applications: • All types of PCR **Storage and transportation conditions:** • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C Benefits:
 Purity > 98%
 DNases and RNases free

Area of applications: • All types of PCR **Storage and transportation conditions:** • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C

The dNTP Mix contains premixed aqueous solutions of highly purified 2'-deoxynucleoside-5'-triphosphates ammonium salts: dATP, dCTP, dGTP and dTTP, each at a final concentration of 25 mM. The reagent does not contain DNases and RNases. The dNTP Mix is designed for polymerase chain reaction (PCR), reverse transcription and RT-PCR, preparation of DNA libraries (including libraries for NGS sequencing) and any other applications requiring DNA synthesis.

The dNTP Mix contains premixed aqueous solutions of highly purified 2'-deoxynucleoside-5'-triphosphates ammonium salts: dATP, dCTP, dGTP and dTTP, each at a final concentration of 10 mM. The reagent does not contain DNases and RNases. The dNTP Mix is designed for polymerase chain reaction (PCR), reverse transcription and RT-PCR, preparation of DNA libraries (including libraries for NGS sequencing) and any other applications requiring DNA synthesis.



R-M25-1

R-M25-5

R-M25-10

5 990	R-M25-25 25 ml	55€	
	R-M25-FS free sample	220€	
		420€	

	R-M10-1 1 ml	25€	R-M10-25 25 ml	480€
	R-M10-5 5x1 ml	115 €	R-M10-FS free sample	0€
JTP Mix) mM each)	R-M10-10 10 ml	215€		





dNTP/dUTP Mix

Mix of high-quality dNTP and dUTP for all types of PCR.

dNTP Set 100 mM Solution

Set of high-quality dNTP (100 mM) for all types of PCR.

Benefits:Purity > 98%DNases and RNases free

Area of applications: • All types of PCR **Storage and transportation conditions:** • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C Benefits:Purity > 98%DNases and RNases free

Area of applications: • All types of PCR **Storage and transportation conditions:** • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C

The dNTP/dUTP Mix contains premixed aqueous solutions of highly purified 2'-deoxynucleoside-5'-triphosphates ammonium salts: dATP, dCTP, dGTP (10 mM), dTTP (2 mM) and dUTP (8mM). The reagent does not contain DNases and RNases. The dNTP/dUTP Mix is designed for polymerase chain reaction (PCR), reverse transcription and RT-PCR, preparation of DNA libraries (including libraries for NGS sequencing) and any other applications requiring DNA synthesis.

The dNTP Set includes 100 mM aqueous solutions of highly purified individual 2'-deoxynucleoside-5'-triphosphates ammonium salts: dATP, dCTP, dGTP and dTTP. The reagent does not contain DNases and RNases. The dNTP Set is designed for polymerase chain reaction (PCR), reverse transcription and RT-PCR, preparation of DNA libraries (including libraries for NGS sequencing) and any other. applications requiring DNA synthesis.

	R- 1 n
F	R- 5x
dNTP/dUTP Mix	R- 10

MU10-1

MU10-5t

MU10-10

30€	R-MU10-25 25 ml	580 🕯
140€	R-MU10-FS free sample	0 4
250 €		

	R-SET-0.25 4x0.25 ml	45€	R-SET-10 4x10 ml	1 200 €
	R-SET-1 4x1 ml	150 €	R-SET-25 4x25 ml	2 700 €
P Set nM Solution	R-SET-5 4x5 ml	600€	R-SET-FS free sample	0€





dUTP 100 mM Solution

High-quality dUTP Solution (100 mM).

Benefits:
• Purity > 98%
• DNases and RNases free

Area of applications: • All types of PCR **Storage and transportation conditions:** • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C

RNase Inhibitor

Recombinant RNase Inhibitor.

Benefits:

Inhibits ribonuclease activity of eukaryotic enzymes (RNase A, RNase B, RNase C)
Active over a wide pH range (pH 5–9)
Stable at the presence of wide range PCR additives

Area of applications:

• RNA isolation • RT-PCR • Synthesis of cDNA • *In vitro* transcription and translation **Concentration:** 40 units/µl

Storage and transportation conditions: • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C

The dUTP (2'-2'-deoxyuridine 5'-triphosphate) is highly purified nucleotide, supplied as 100 mM aqueous solution of ammonium salt. The reagent does not contain DNases and RNases. The dUTP is useful for polymerase chain reaction (PCR), reverse transcription and RT-PCR and any other applications requiring DNA synthesis.

RNase Inhibitor is a 50 kDa placental protein obtained from recombinant *E. coli* cells. The reagent inhibits the ribonuclease activity of eukaryotic enzymes (RNase A, RNase B, RNase C) by non-covalent binding (1:1). It allows to work with RNA without risk of its damage. It does not show activity against RNase 1, RNase T1, RNase T2, nucle- ase S1 and RNase H.



R-UTP-5

45€	R-UTP-25 25 ml	710
150 €	R-UTP-FS free sample	0
300€		

	R-RN-0.25 10 000 U, 0.25 ml	140 €	R-RN-10 400 000 U, 10x1 ml	3 600 €
	R-RN-0.5 20 000 U, 0.5 ml	250€	R-RN-FS free sample	0€
Nase Inhibitor	R-RN-1 40 000 U, 1 ml	450€		





Poly(A)

Highly purified polyadenylic acid sodium salt. Useful for RNA protection.

Antibodies Mixture for Taq DNA Polymerase

Optimized mixture of monoclonal antibodies for Taq DNA polymerase.

Benefits: • Purity> 98%

Area of applications:

Storage and transportation conditions: • From -24°C to -16°C - 2 years • Up to 14 days at a temperature < +25°C Benefits:

nhibit polymerase activity at 55°C for 30 min

Area of applications: • Hot-start PCR • One-step RT-PCR

Storage and dilution buffer: • 20 mM KCl, 10 mM Tris-HCl (pH 8.0) **Concentration:** • 5.7 mg/ml

Storage and transportation conditions: • From -24°C to -16°C - 2 years • From +2°C to +8°C - 6 months • Up to 14 days at a temperature < +25°C

Poly(A) is a homogeneous powder of polyriboadenylate acid sodium salt, obtained by the enzymatic polycondensation reaction of adenosine-5'-diphosphoric acid. Useful as protective agent during RNA isolation and purification.

Monoclonal antibodies for Taq DNA polymerase form a stoichiometric complex that inactivates the enzyme. Denaturation of the complex and release of polymerase is achieved by heating above 60°C. Complex of polymerase with antibodies is stable in solution and in lyophilized form.



R-PA-0.1

R-PA-0.5

R-PA-1

75€	R-PA-10 10x1 g
300€	R-PA-FS free sample
540€	

	R-AB-1 1 mg, 0.175 ml	120€	R-AB-100 100 mg, 17.5 ml	7 600 €
lixture for Lymerase	R-AB-10 10 mg, 1.75 ml	950€	R-AB-FS free sample	0€



4 900 €



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Magnetic Beads ExraMag (25 mg/ml)

Magnetic beads for DNA/RNA extraction and purification.

Benefits:

High NA purity and capacity
Good sedimintation stability
Short time of magnetic separation
Easy to resuspend
Compatible with automatic stations

Area of applications:

- Genomic NA extraction
 Viral NA extraction
 Plasmid DNA purification
- Purification of PCR products

Concentration:

25 mg/ml (up to 200 mg/ml upon request)

Storage and transportation conditions: • From +2°C to +25°C - 2 years • Not allowed to freeze

ExtraMag beads are silica-coated superparamagnetic particles designed for high-throughput and rapid extraction and purification of nucleic acids. Average particle size is 1 μ m. ExtraMag beads provide high NA purity (A260/A280 = 2.1–2.2) and NA extraction capacity (6–12 μ g per 1 mg of beads). Beads posses high sedimentation stability (3-5 min) and short time of magnetic separation (< 1 min). ExtraMag can be used in manual and automatic modes and compatible with most popular automatic stations (KingFisher Flex, Freedom EVO® or analogous).

	R-MB25-5 5 ml	45€	R-MB25-1000 1 000 ml	2 950 €
	R-MB25-50 50 ml	195€	R-MB25-FS free sample	0€
25 mg/m	R-MB25-100	370 €		

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