



NUCLEIC ACID EXTRACTION & PURIFICATION

- *gDNA*
- *cfDNA*
- *PCR products*
- *Plasmid DNA*
- *RNA*
- *Total Nucleic Acid*
- *Bacteria*
- *Blood & body fluid*
- *Cells and tissues*
- *Plants*

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Genomic DNA extraction

Genomic DNA extraction kits selection guide

Sample source	Name	References	Sample/Quantity	Time	Column	Magnetic Beads
Various	DNAzol Direct	DN131-25 DN131-50	<ul style="list-style-type: none"> • 1-10 µl fluid • 1-10 mg of solid sample 	15 min		
	ONE-4-ALL Genomic DNA Mini-Prep Kit	BI-BS88503 BI-BS88504 BI-BS88505	25 mg materials	20 min	✓	
Bacteria	Bactozol	BA154 BZ160	0.5 – 2.0 ml of culture	40-90 min		
	MasterPure™ Gram Positive DNA Purification Kit	LU-MGP04100	1.0 ml of an overnight Gram-positive bacterial culture	30 min to overnight lysis 60 min extraction		
	96-Well Plate Bacteria Genomic DNA Miniprep Kit	BI-SK1292 BI-SK1295	1.6 ml overnight bacterial culture	60 min	✓	
Bacteria, cells & tissues	Quick Extract™ DNA Extraction Solution	LU-QE09050 LU-QE0905T	<ul style="list-style-type: none"> • 10⁴ cells • 0.5–1 cm human hair with follicle • 0.5–1 cm mouse tail snip • one single E. coli colony picked from a plate • 0.5–1 cm quill-end plucked and stored at 4°C 	8 min (20 min for fingernails)		
	EZ-10 Spin Column Genomic DNA Miniprep Kit Bacteria	BI-BS423 BI-BS624	<ul style="list-style-type: none"> • Cells grown in suspension not exceeding 5 x 10⁶ cells • Bacteria about 10⁶ ~10⁷ • 25~30 mg paraffin tissue 	30 min	✓	
	EZ-10 Spin Column Genomic DNA Miniprep Kit Animal	BI-BS427 BI-BS628	<ul style="list-style-type: none"> • 30 mg of tissue • 0.5-1 cm rodent tail • >5x10⁶ cells • 25~30 mg paraffin tissue 	1-3 h lysis 30 min	✓	
Blood	DNAzol® BD	DN129-50 DN129-100 DN129-500	0.5 ml/ml DNAzol®	20 min		
	MasterPure™ DNA Purification Kit for Blood Version II	LU-MB711400	4 ml whole blood	30 min		
	Rapid Blood Genomic DNA Extraction Kit	BI-BT4782	5 ml	15 min		
	EZ-10 Spin Column Blood Genomic DNA Minipreps	BI-SK8253 BI-SK8254	100 µl	60 min	✓	
	96-Well Plate Blood Genomic DNA Miniprep Kit	BI-BT92031 BI-BT92032	Up to 100 µl	20 min	✓	
	sbeadex™ blood kits	LG-NAP44404	200 µl	60 min		✓

Sample source	Name	References	Sample/Quantity	Time	Column	Magnetic Beads
Cells & Tissues	DNAzol® Genomic DNA isolation reagent	DN127-50 DN127-100 DN127-500	<ul style="list-style-type: none"> • 25 – 50 mg tissue • 1 – 3 x 10⁷ cells 	20 min		
	QuickExtract™ FFPE DNA Extraction Kit	LU-QEF81050	<ul style="list-style-type: none"> • 0.8-1.0 cm² tissue section • 10-50 mg of tissue 	60 min		
	96-Well Plate Animal Genomic DNA isolation kit	BI-BS4372 BI-BS437	<ul style="list-style-type: none"> • 30 mg of tissue • 0.5-1 cm rodent tail 	60 min	✓	
	sbeadex™ livestock kit	LG-NAP44702 LG-NAP44703	<ul style="list-style-type: none"> • ear punches, blood, hair, saliva or semen 			✓
	DNAzol® ES	DN128-50 DN128-100 DN128-500	0.5 g of plant tissue/1.5 ml DNAzol®	30 min		
Plant	QuickExtract™ Plant DNA Extraction Solution	LU-QEP70750	<ul style="list-style-type: none"> • 4-6 mm leaf punch • 10-100 mg seed chips 	8 min		
	One-tube Plant Genomic DNA Extraction Kit	BI-PT71816 BI-PT71817 EZ-10	<ul style="list-style-type: none"> • 100 mg fresh plant tissue • 20 mg dry plant tissue 	60 min		
	EZ-10 Spin Column Plant Genomic DNA Miniprep Kit	BI-B518261-0050 BI-SK8262	<ul style="list-style-type: none"> • 100 mg fresh plant tissue • 20 mg dry plant tissue 	30 min	✓	
	96-Well Plate Plant Genomic DNA Miniprep Kit	BI-BS8361	<ul style="list-style-type: none"> • 100 mg fresh plant tissue • 20 mg dry plant tissue 	120 min	✓	
	sbeadex™ plant kit	LG-NAP41601 LG-NAP41602 LG-NAP41620	<ul style="list-style-type: none"> • 20 - 30 mg starting material • 80 - 100 mg starting material • leaf, seed, bark, pulp and root 			✓
	MAGSI-DNA Plant CLS	MA-MDKT00260096 MA-MDKT00260960 MA-MDKT00260096PF	<ul style="list-style-type: none"> • Cotyl, • Leaf • Seed 	30 min		✓
	MasterPure™ Yeast DNA Purification Kit	LU-MPY80200	<ul style="list-style-type: none"> • 1.5 ml saturated yeast cell culture • 10 ml of overnight culture mycelium • 2 mm in diameter yeast colony 	40 min		
Yeast	Rapid Yeast Genomic DNA Extraction Kit	BI-BS8227	<ul style="list-style-type: none"> • 1.0 ml yeast culture (~1×10⁷ cell) 	<ul style="list-style-type: none"> • 4 h lysis/digestion • 30 min extraction • 2 h DNA dissolution 		
	EZ-10 Spin Column Yeast Genomic DNA Miniprep Kit	BI-BS8257	1.0 ml yeast culture (~1×10 ⁷ cell)	<ul style="list-style-type: none"> • 30 min 	✓	
	96-Well Plate Yeast Genomic DNA Miniprep Kit	BI-BS8357	1.0 ml yeast culture (~1×10 ⁷ cell)	120 min	✓	

Various samples

DNAzol® Direct

DNAzol® Direct is a universal reagent for processing biological samples for direct PCR. No DNA isolation is required. The DNAzol Direct procedure is simple and fast. Lyse a sample in DNAzol Direct for 15 min, add an aliquot of the lysate to a PCR mix, and perform amplification of a selected DNA fragment(s). DNAzol Direct simultaneously acts to release and denature DNA into a single-stranded form, hydrolyze RNA, and denature and partially hydrolyze proteins. The patent-pending DNAzol Direct composition and procedure are based on an alkaline solution containing polyethylene glycol and other additives. The combined effects of the alkaline pH and chaotropic properties of this reagent are sufficient to effectively inactivate PCR inhibitors including proteases and nucleases. This protocol eliminates columns, centrifugation steps and DNA precipitation. The standard DNAzol Direct procedure supports PCR amplification of DNA fragments up to 8 kb long.

DNAzol® Direct is designed to process a wide range of samples including animal, plant, fungi, yeast, bacterial, and viral samples. It has been used with blood, serum and plasma, saliva, buccal swabs, blood cards, hairs and feathers, leaves and seeds, and formalin-fixed tissues.

Protocol

1. Mix 1-10 µl fluid or 1-10 mg of solid sample with 0.1 ml of DNAzol® Direct.
2. Lyse the sample by incubation for 15 min at room temperature.
3. Vortex the lysate and transfer 2-5 µl of lysate directly into a 20-50 µl PCR mix. The lysate volume should not exceed 10% of the reaction volume.

DN131-25ml	DNAzol® Direct	25 ml	47,00 € HT
DN131-50ml	DNAzol® Direct	50 ml	82,00 € HT

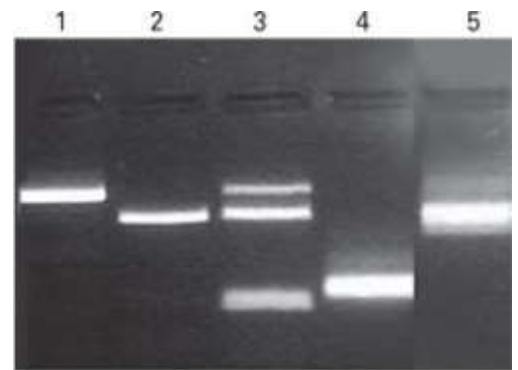
One-4-All Genomic DNA Miniprep kit

ONE-4-ALL Genomic DNA Mini-Prep Kit is designed for rapid purification of genomic DNA (as well as other forms of DNA, e.g mitochondria) from fresh, frozen or paraffin-embedded animal tissues, cells, blood or bacteria.

Samples are first lysed using proteinase K in an optimized buffer. The lysate is loaded onto the EZ-10 spin column, and DNA is selectively bound to the EZ membrane embedded in the column. During wash steps, protein and other impurities are removed and DNA is then eluted in low-salt buffer. Purified DNA typically has an A260/A280 ratios of 1.7-1.9, and is highly suited for most downstream applications such as PCR, Southern blotting, RAPD and RFLP.

The purification procedure requires no phenol/chloroform extraction or alcohol precipitation, and involves minimal handling. The whole procedure takes only 20 minutes after sample preparation.

Yields of DNA varies between samples depending on the amount and type of tissue, for most tissues 5-15 µg DNA can be obtained from 25 mg materials.



Amplified DNA fragments were electrophoretically separated in a 2% agarose gel. (1) LCT from human saliva; (2) cfos from human blood; (3) LCT, cfos, cox2 multiplex from human blood; (4) GAPDH from rat liver; (5) 5S rRNA from wheat.

Features

- OD260/OD280 of purified DNA is generally 1.7~1.9.
- Purification of high quality genomic DNA with a molecular weight \geq 20 kb.
- Fast and easy processing use a rapid spin-column format.
- Compatible with many downstream applications such as PCR, restriction digestion and hybridization.
- No phenol/chloroform extraction or ethanol precipitation is required.
- High yield and reproducibility.
- Compatible with a variety of sample sources.

BI-BS88503	ONE-4-ALL Genomic DNA Mini-Preps Kit	50 Preps	97,00 € HT
BI-BS88504	ONE-4-ALL Genomic DNA Mini-Preps Kit	100 Preps	170,00 € HT
BI-BS88505	ONE-4-ALL Genomic DNA Mini-Preps Kit	250 preps	372,00 € HT

Bacteria

Bactozol™ kit

Bactozol™ is a kit for the isolation of DNA from gram-negative and gram-positive bacteria. The kit includes three reagents, 10X Bactozol Enzyme Solution, Bactozol Enzyme Dilution Buffer and DNAzol®. Bactozol Enzyme Solution contains activated lysozyme for the effective lysis of a broad range of bacterial specimens. It is supplied as a convenient 10X stock solution that maintains enzyme stability at room temperature and precludes the daily preparation of lysozyme stock solutions. After bacterial lysis with 1X Bactozol Enzyme Solution, DNA is isolated from the lysate with DNAzol. The Bactozol Kit protocol produces high quality bacterial genomic and plasmid DNA with a simple and efficient protocol. The Bactozol procedure can accommodate gram-positive bacteria that are more difficult to lyse and often produce lower DNA recovery, such as *Staphylococcus* and *Streptococcus*.



DNA (1 μ g/ lane) isolated from gram-negative (1) *Escherichia coli*, (2) *Citrobacter braakii*, (3) *Agrobacterium rhizogenes*, and gram-positive (4) *Bacillus subtilis* and (5) *Micrococcus luteus* bacteria.

Bactozol™ Kit includes 50 ml of DNAzol®, 1.3 ml of 10X Bactozol™ Enzyme Solution and 15 ml of Dilution Buffer. The kit has sufficient reagents to process 125 bacterial pellets derived from 0.5 – 2.0 ml of culture, each containing up to 40 μ g of bacterial DNA.

BA154	Bactozol kit	125 isolations	138,00 € HT
BZ160	Bactozol Enzyme solution	125 reactions	65,00 € HT

MasterPure™ Gram Positive DNA Purification Kit

Purify genomic DNA from challenging Gram positive bacteria for a wide variety of molecular biology applications

- Produces clean, high molecular weight genomic DNA ready for PCR and other molecular biology applications such as restriction digestion, cloning, and Southern blotting
- Scalable method for large sample volumes with no wasting of reagents with smaller samples
- Complete kit includes lysozyme ; no separate purchase required
- Robust kit works on a variety of tested species
- Flexible kit also purifies gDNA from Gram negative bacteria

Description

The MasterPure™ Gram Positive DNA Purification Kit provides all of the reagents needed to purify DNA from Gram positive bacteria. These bacteria lyse more readily after treatment with Ready-Lyze™ Lysozyme and the Gram-Positive Cell Lysis Solution included in the kit. Ready-Lyze Lysozyme is a stable solution of a recombinant lysozyme from a nonmammalian, nonavian source. It has high specific activity and does not bind DNA.

Examples of Gram-positive bacteria tested with this kit are listed in Table below. The size range of DNA purified by the MasterPure Gram Positive DNA Purification Kit is shown in Figure below. The DNA purified using the kit is suitable for PCR analysis, and other molecular biology applications.

Species	Culture Medium	Ready-Lyze™ Incubation	DNA Yield µg/ml
Bacillus subtilis	Brain-Heart Infusion (BHI)	30 min	9.0
Listeria monocytogenes	BHI	Overnight	3.3
Staphylococcus aureus	BHI	Not needed	8.0
Streptococcus mutans	Todd-Hewitt	Overnight	3.0
Lactococcus lactis	M17	30 min	1.1

Table : Incubation times needed for DNA recovery from 1 ml of Gram positive bacterial culture

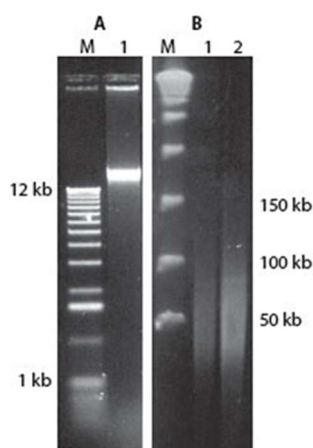


Figure : Electrophoretic analysis of DNA purified using the MasterPure™ Gram Positive DNA Purification Kit. Panel A : DNA purified from B. subtilis (ATCC 6051) was separated on a 1% agarose gel and stained with SYBR® Gold. Lane M, kilobase ladder ; lane 1, 300 ng of B. subtilis DNA. Panel B : Pulse-field gel electrophoresis of B. subtilis DNA. Lane M, Phage lambda ladder ; lane 1, 300 ng of DNA; lane 2, 600 ng of DNA

LU-MGP04100	MasterPure Gram Positive DNA Purification Kit	100 Preps	484,00 € HT
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EZ-10 96-Well Plate Bacteria Genomic DNA Miniprep Kit

The kit provides a simple and convenient high throughput approach to isolate high quality Genomic DNA from both Gram negative and Gram positive bacteria. DNA of cell lysate is selectively adsorbed on EZ-10 Spin Column, impurities such as proteins, salts and nucleotides are washed away. No phenol/chloroform extraction or ethanol precipitation is required. Purified genomic DNA can be up to 50 kb in length and can be used for PCR, and other downstream applications.

Features

- High purity : Prepared DNA can be used for PCR directly and other downstream applications.
- Efficient : whole procedure only takes 60 minutes.
- No phenol/ chloroform extraction, no ethanol precipitations are required.

BI-SK1292	96-Well Plate Bacteria Genomic DNA Miniprep Kit	2 plates	163,00 € HT
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Bacteria, cells & tissues

Quick Extract™ DNA Extraction Solution

Simple, rapid extraction of PCR-ready DNA for screening and genotyping type applications

- Fast : 8 minute extraction protocol for most sample types
- Simple : No centrifugation steps of spin columns used to help increase yields
- Automation-friendly : Simple protocol integrated easily into automated workflows
- Safe : Uses only non-toxic reagents
- Recommended for rapid, easy sample prep for T7E1 CRISPR mutation detection assays

Description

The QuickExtract™ DNA Extraction Solution can be used to rapidly and efficiently extract PCR-ready genomic DNA from almost any sample type using a simple, one-tube protocol that takes only 3-8 minutes, depending on the sample. QuickExtract Solution has been used to extract DNA from samples such as hair follicles, quill-end cells of feathers, tissue-culture cells, buccal cells, zebrafish organs and scales, and mouse tail snips. The extracted DNA is suitable for PCR analyses, such as genomic, transgenic, or viral DNA screening in animals, or for genetic or environmental research and screening in humans and other organisms.

The QuickExtract method allows for the inexpensive processing of one to hundreds of samples simultaneously, without centrifugation, spin columns or the use of any toxic organic solvent. The method is also compatible with robotic automation.

Applications

Produce PCR-ready DNA for transgenic mouse genotyping, genetic studies, human identity testing, or viral/microbial screening.

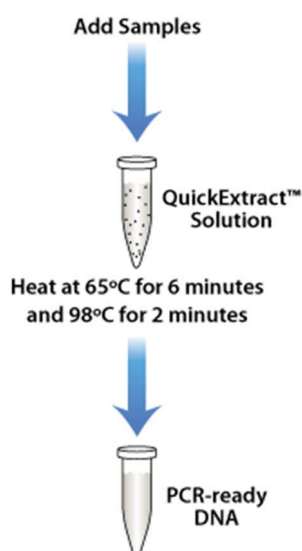


Figure : Procedure for obtaining PCR-ready DNA using QuickExtract™ DNA Extraction solution

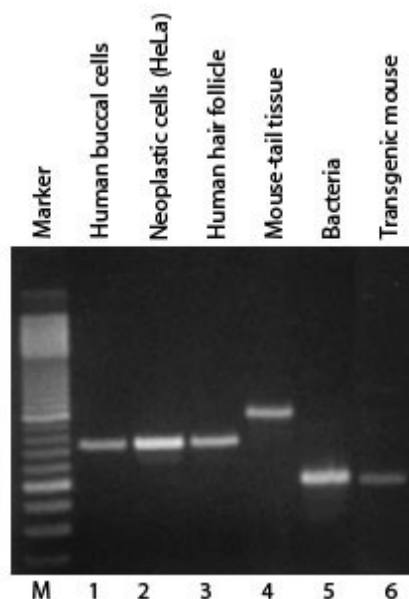


Figure : FailSafe™ PCR amplifications of genomic DNA extracted from a variety of tissues or cells. Buccal cells were extracted using the BuccalAmp™ DNA Extraction Kit, and all other samples with QuickExtract™ DNA Extraction Solution. PCR was performed using primers to amplify the regions indicated: Lanes 1-3, human β -globin; lane 4, transgenic mouse GAPDH; lane 5, E. coli 16S ribosomal RNA gene; lane 6, transgenic SV40 T antigen

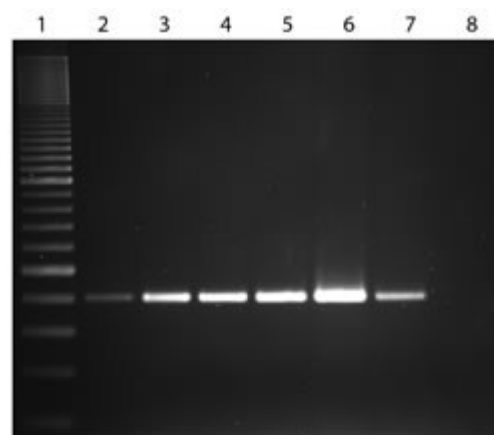


Figure : Extracted DNA from multiple Zebrafish organs using QuickExtract™ DNA Extraction Solution 1.0. A 1- μ L aliquot of a 100- μ L extracted sample was used to amplify a single-copy crystallin-like gene. Lane 1, 100-bp ladder; lanes 2-3, fins; lanes 4-5, eyes; lanes 6-7, scales; lane 8, no-DNA control.

LU-QE09050	QuickExtract DNA Extraction Solution 1.0	50 ml	519,00 € HT
LU-QE0905T	QuickExtract DNA Extraction Solution 1.0	5 ml	104,00 € HT

EZ-10 Spin Column Genomic DNA Miniprep Kit Bacteria

This kit is designed for rapid isolation of genomic DNA from paraffine embedded tissues, cells and bacteria. The kit contains a membrane embedded column for binding up to 10 μ g of genomic DNA. Nucleotides, proteins, salts, and other impurities are washed away. Purified genomic DNA can be used in most molecular biology experiments including restriction enzyme digestion, PCR, Southern-blotting, etc.

BI-BS423	EZ-10 Spin Column Genomic DNA Miniprep Kit Bacteria	50 Preps	49,00 € HT
BI-BS624	EZ-10 Spin Column Genomic DNA Miniprep Kit Bacteria	250 Preps	187,00 € HT

EZ-10 Spin Column Genomic DNA Miniprep Kit Animal

EZ-10 Spin Column Kits provide a fast, simple and efficient method for purification of genomic DNA from various sources such as Bacteria, Plant tissue, Animal tissue, Cells and Blood.

By taking the advantage of our silica-based DNA purification technology, DNA is selectively adsorbed in the silica-based membrane embedded in EZ-10 Spin Column. Other components and impurities flow through the column or are washed away during wash steps.

Genomic DNA is then eluted off the column and can be readily used in most downstream applications, including restriction enzyme digestion, PCR, Southern-blotting, etc. The purification procedure using in these kits does not require use of hazardous compounds such as phenol, chloroform, or CsCl. DNA is purified without additional steps of ethanol precipitation.

Features

- Simple, fast and efficient.
- Preparation of high quality genomic DNA from various sources.
- High yield and reproducible.
- No phenol chloroform extraction or ethanol precipitation required.
- High capacity - up to 10 µg of DNA per column.

Applications

Purification of up to 10 µg genomic DNA from various sources.

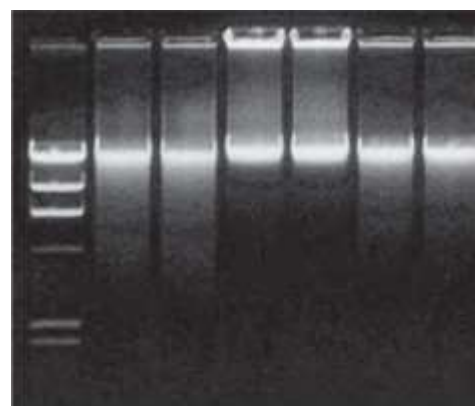
BI-BS427	EZ-10 Spin Column Genomic DNA Miniprep Kit Animal	50 Preps	49,00 € HT
BI-BS628	EZ-10 Spin Column Genomic DNA Miniprep Kit Animal	250 Preps	187,00 € HT

Blood, biological fluids

DNAzol® BD

DNAzol® BD is a reagent specifically formulated for the isolation of genomic DNA from whole blood. The DNAzol BD patented procedure (U. S. patent 5,945,515) is based on the use of a novel guanidine - detergent lysing solution which hydrolyzes RNA and allows the selective precipitation of DNA from the lysate. The isolation of genomic DNA from blood using DNAzol BD is fast, efficient and economical. In addition to the isolation of genomic DNA, DNAzol BD can also be used for the isolation of apoptotic fragments from whole blood and viral DNA from serum.

Blood samples are mixed with DNAzol BD and DNA is precipitated from the resulting lysate with isopropanol. The DNA pellet is washed successively with DNAzol BD and ethanol, and solubilized. The entire procedure can be completed in about 30 minutes and the isolated DNA can be used for Southern analysis, dot blot hybridization, molecular cloning, PCR and other molecular biology and biotechnology applications



DNAzol was used to isolate genomic DNA from rat liver tissue (lane 1-2), human blood (lanes 3-4) and adult growth leaves (lanes 5-6).

DNAzol® BD is specifically designed for the isolation of genomic or viral DNA from whole blood. 1.0 ml of DNAzol® BD isolates DNA from 0.5 ml of whole blood.

DN129-50	DNAzol® BD	50 ml	69,00 € HT
DN129-100	DNAzol® BD	100 ml	122,00 € HT

MasterPure™ DNA Purification Kit for Blood Version II

Easily purify high quality genomic DNA from whole blood or buffy coat.

- Scalable purification of gDNA from blood
- Consistent yields of up to 10 µg of DNA from 325 µL of whole blood and approximately 100 µg DNA from 600 µL of buffy coat
- High purity gDNA with A260/A280 ratios of 1.8-2.0 making the DNA suitable for most downstream molecular biology applications including PCR and sample archiving
- Fast protocol completed in less than 30 minutes
- Improved yields by avoiding the use of columns
- Better safety since no hazardous organic solvents are used

Description

The MasterPure™ DNA Purification Kit for Blood Version II can be used to isolate exceptionally pure genomic DNA from whole blood or buffy coat. With the optimized protocol for DNA, up to 100 µg of DNA can be recovered from 600 µl of buffy coat in less than 30 minutes (Table below). The purified DNA contains both high- and low-molecular-weight genomic DNA which can be used directly as a template in PCR amplification reactions, for digestion with restriction enzymes, for Southern blotting, or for other molecular biology applications. Protocols are provided for genomic DNA and TNA purification from whole blood and buffy coat. For RNA samples, we recommend the MasterPure RNA Purification Kits. Both protocols allow for scaling up to accommodate larger samples.

Starting Material	Yield
600 µl Buffy Coat	87-109 µg
200 µl Whole Blood	3-9 µg
0.6 ml Whole Blood	9-27 µg
0.8 ml Whole Blood	12-36 µg
1 ml Whole Blood	15-45 µg
2 ml Whole Blood	30-90 µg
3 ml Whole Blood	45-120 µg
4 ml Whole Blood	60-180 µg

LU-MB711400	MasterPure DNA Purif Kit for Blood, V II, 400 mL Whole Blood	EACH	835,00 € HT
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Rapid Blood Genomic DNA Extraction Kit

Rapid Blood Genomic DNA Extraction Kit allows simple and fast isolation of high quality genomic DNA from fresh and anti-coagulated blood. The entire procedure takes approx. 15 minutes only. Up to 5 ml of blood sample can be treated for each mini-preps. Average DNA yields are 20~60 µg per ml of the whole blood sample. Purified DNA can be used in a wide range of downstream applications.

BI-BT4782	Rapid Blood Genomic DNA Extraction Kit	50 Preps	41,00 € HT
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EZ-10 Spin Column Blood Genomic DNA Mnipreps

EZ-10 Spin Column Kits provide a fast, simple and efficient method for purification of genomic DNA from various sources such as Bacteria, Plant tissue, Animal tissue, Cells and Blood. By taking the advantage of our silica-based DNA purification technology, DNA is selectively adsorbed in the silica-based membrane embedded in EZ-10 Spin Column. Other components and impurities flow through the column or are washed away during wash steps. Genomic DNA is then eluted off the column and can be readily used in most downstream applications, including restriction enzyme digestion, PCR, Southern-blotting, etc. The purification procedure using in these kits does not require use of hazardous compounds such as phenol, chloroform, or CsCl. DNA is purified without additional steps of ethanol precipitation.

BI-SK8253	EZ-10 Spin Column Blood Genomic DNA Mnipreps	50 Preps	51,00 € HT
BI-SK8254	EZ-10 Spin Column Blood Genomic DNA Mnipreps	100 Preps	88,00 € HT

EZ-10 96-Well Plate Blood Genomic DNA Miniprep Kit

96 Well Plate blood genomic DNA minipreps kit is designed for rapid and high-throughout purification of genomic DNA from fresh or frozen anticoagulated blood. Samples are first lysed using proteinase K in an optimized buffer. The lysate is then loaded onto the 96 well EZ plate, DNA is selectively bound to the EZ membrane embed in the plate in the presence of high concentrations of chaotropic salt. During wash steps, protein and other impurities are removed and DNA is then eluted in water or low-salt buffer. Purified DNA typically has an A260/A280 ratios of 1.7 - 1.9, and is highly suited for most downstream applications such as PCR, Southern blotting, RAPD and RFLP. The purification procedure requires no phenol or chloroform extraction or alcohol precipitation, and involves minimal handling. The whole procedure takes only 20 minutes after sample preparation. Note : The kit cannot distinguish different forms of DNA and will not be able to separate mitochondrial DNA from genomic DNA.

Features

- High quality of DNA, OD260 /OD280 of purified DNA is generally 1.8 ~ 1.9.
- Fast and effective. Fast and easy processing using a rapid spin-column format.
- Compatible with many downstream applications such as PCR, restriction digestion and hybridization.
- No phenol/ chloroform extraction or ethanol precipitation is required.

BI-BT92031	96-Well Plate Blood Genomic DNA Miniprep Kit	2 Plates	163,00 € HT
BI-BT92032	96-Well Plate Blood Genomic DNA Miniprep Kit	5 Plates	368,00 € HT

Red Cell Lysis Solution

Selectively lyse red blood cells while leaving white blood cells intact

LU-MRC0912H	Red Cell Lysis Solution	1200 mL	226,00 € HT
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sbeadex™ blood kits

Purification kit solutions for blood DNA preparations

Blood samples can often vary considerably in quality, and this can lead to wide variations in the consistency and yield of extracted DNA. Molecular testing protocols, including genotyping and next-generation sequencing applications require reliable and high quality sample preparations ; sbeadex® blood kits meet these requirements

- High quality DNA preparations for downstream molecular biology applications
- Compatible with EDTA, heparin and citrate anticoagulants, and buffy coat preparations
- Water-based wash buffers reduce solvent carryover, resulting in absence of PCR inhibitors in final eluate
- Quicker results - speed of purification can be optimised
- Highly flexible batch sizes (standard kit sizes 96, 960 and 5,000 purifications)
- Results in the generation of both high quantity and high quality DNA

DNA purification from blood protocol

sbeadex blood is a magnetic bead based DNA purification technology for blood samples of up to 200 µl volume. These proprietary superparamagnetic beads are double coated and include 2-binding steps and follow the standard workflow:



sbeadex blood kits have been developed as a high-throughput and cost-effective DNA isolation method. It supports automated DNA extractions using magnetic particle handlers (KingFisher™) as well as liquid handlers.

Standard blood sample (anticoagulants) and preparations are:

- EDTA blood
- Heparin blood
- Citrate blood
- Buffy coats

Applications

- NGS : enzymatic fragmentation
- Library/Cloning: suitable for digestion and ligation
- qPCR/PCR: compatible with fluorescent BHQ probes and KASP chemistry
- Sanger Sequencing

Due to the adaptability of the sbeadex blood kit chemistry, modifications to the standard protocol can easily be performed, dependent on the input sample volume, the storage conditions of the blood sample, and the anticoagulation factors used. sbeadex blood represents the next generation of magnetic beads, allowing highest flexibility in terms of sample volume, automation, washing conditions and other important purification requirements.

Advantages of a double-coated sbeadex blood purification kit

- Efficient - purification of high molecular weight DNA from whole blood and buffy coat preparations
- High quality – consistent OD260/280 ≥ 1.8 ratio and an average OD260/230 1.9 ratio
- Easy to automate – magnetic microparticle handling offers flexibility
- Absence of PCR inhibitors – no organic solvents or chaotropic salts in final wash buffers.
- Convenient – all buffers supplied are ready to use
- Optimised protocols - Less than 1 hour to DNA

LG-NAP44404	Sbeadex blood DNA kit	96 purifications per kit*	271,00 € HT
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*The number of purifications is based on the manufacturer's standard protocol that assumes 200 μ l starting blood volume

MAGSI-DNA Body Fluid

Fast and Cost-effective Extraction of Genomic DNA from body fluids

MagSi-DNA Body Fluid allows fast and cost-effective extraction of genomic DNA from blood, saliva or swab samples. The magnetic bead-based kit can be used on fresh or frozen whole blood, fresh or preserved saliva samples or swab wash solutions. The ready-to-use reagents and simple protocol are convenient in use and easy to automate. As a linear volume to volume ratio is used between sample and reagents, it is possible to use the kit in any situation where high quality genomic DNA is needed.

Features

- Short protocols, complete processing at room temperature possible
- Consistently high yield of DNA
- Excellent purity A260/280 >1.7 , A260/230 >1.5
- Suitable for many genomic applications including PCR, DNA sequencing
- Preparation time for 96 samples: 30 min

Easy to automate

- Compatible with many different automated liquid handling systems (e.g KingFisher™, PrimaRWS®, PIPETMAX® and JANUS®)
- Short and easy protocols
- Suitable for small, medium and high-throughput automation
- Variable volume sample input possible

MA-MDKT00140096	MagSi-DNA Body Fluid (1x96)	96 preps	204,00 € HT
MA-MDKT00140960	MagSi-DNA Body Fluid (10x96)	10 x 96 preps	1511,00 € HT

EpiQuik™ Circulating Cell-Free DNA (ccfDNA) Isolation Easy Kit

For isolation of small fragment circulating ccfDNA from plasma or serum

The EpiQuik™ Circulating Cell-Free DNA (ccfDNA) Isolation Easy Kit utilizes magnetic beads based size-fractionation technology to isolate circulating cell-free DNA (ccfDNA) from plasma/serum samples in a simple and fast manner. The isolated ccfDNA can be directly used for real time-PCR and DNA library preparation suitable for next generation sequencing. The kit has the following advantages:

- Fast and straightforward procedure can be finished within 1 hour.
- Uses innovative magnetic bead based size-fractionation technology for isolation of ccfDNA from plasma/serum in a simple and convenient manner.
- The isolated DNA can be directly used for both qPCR and NGS DNA library preparation.
- Efficient removal of proteins, salts, nucleases, PCR inhibiting substances, and other impurities such as polysaccharides, polyphenols and lipids.
- Sensitive and efficient DNA capture enables successful isolation with high recovery (>80% of input mononucleosomal DNA), even when the quantities of starting material are limited (as low as 0.2 ml).

Principle & Procedure

The EpiQuik™ Circulating Cell-Free DNA (ccfDNA) Isolation Easy Kit contains all components which have been optimized for the simple and rapid isolation of small size ccfDNA from plasma/serum. The circulating nucleosomal complexes are first digested and DNA is then enzymatically released. The ccfDNA is efficiently captured via size-fractionation magnetic beads (ccfDNA Capture Beads) by applying the beads to a magnetic field (EpiMag™ HT (96-Well) Magnetic Separator or similar). The captured ccfDNA is purified by simply washing the beads. The purified ccfDNA is then eluted from the beads for immediate use or storage.

Starting Materials

Both fresh and frozen plasma/serum from various sources can be used. However, fresh plasma/serum will generally give higher DNA yields than frozen. The input volume of plasma/serum can be from 0.1-1 ml with the standard volume of 0.5 ml per sample. If serum sample is used, the serum should be prepared within 6 hours after blood draw, since lysis of peripheral blood lymphocytes may cause an artificial increase in the amount of DNA during serum separation.

EP-P-1065-25	EpiQuik™ Circulating Cell-Free DNA (ccfDNA) Isolation Easy Kit	25 Isolations	190,00 € HT
EP-P-1065-50	EpiQuik™ Circulating Cell-Free DNA (ccfDNA) Isolation Easy Kit	50 Isolations	323,00 € HT

Cells & Tissues

DIRECT PCR® DNA Extraction System

Genotyping without DNA isolation

DirectPCR® DNA Extraction System is a single-tube system for rapid preparation of DNA from mouse tails, ear pieces, yolk sac, and culture cells. The patent-pending components developed by scientists at Viagen Biotech Inc. allow the resulting DNA extracts to be compatible with genomic PCR for genotyping. Crude extracts of biological samples are not compatible with many molecular biology-grade reactions such as polymerase chain reaction (PCR), in part due to inhibitors contained in crude extracts. The DirectPCR reagents not only mediate the rapid lysis of biological samples but also contain inhibitors that effectively suppress the inhibitory activities of crude lysates for PCR amplification, while maximally maintaining the integrity of released genomic DNA.

The patent-pending simple procedure completely eliminate any solution transfer or tube-opening steps, providing you with substantial extra time.

Brief procedure

1. Lyse tails in DirectPCR® Lysis Reagent.
2. incubate for 45 min at 85°C.
3. PCR genotyping with 1 µl lysates.

DirectPCR® system offers **advantages** over conventional protocols that include:

- Safe : No organic reagents.
- Environmental : No wastes (organic reagents, tubes, tips, etc...)
- Reliable and efficient : Virtually 100% success rate with high yields.

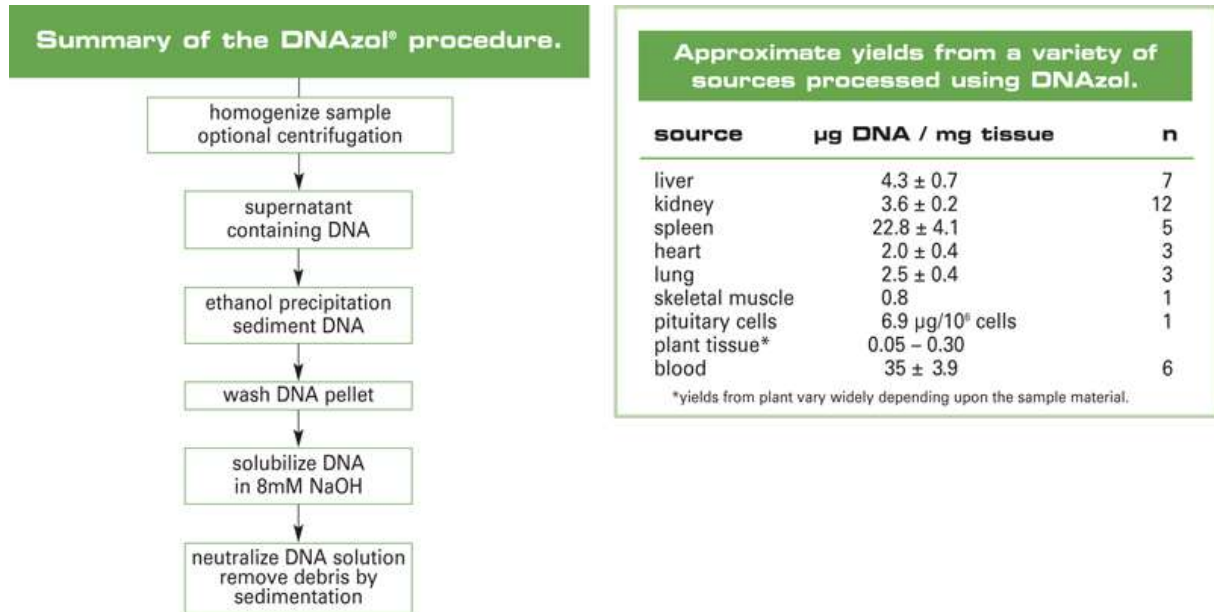
Cat No	Name	Comments	Price
VI-301-C	DirectPCR Lysis Reagent (cell)	cultured cells (50 ml)	121,00 € HT
VI-302-C	DirectPCR Lysis Reagent (cell)	cultured cells (100 ml)	202,00 € HT
VI-401-E	DirectPCR Lysis Reagent (mouse ear)	mouse ear (25 ml)	121,00 € HT
VI-402-E	DirectPCR Lysis Reagent (mouse ear)	mouse ear (50 ml)	202,00 € HT
VI-101-T	DirectPCR Lysis Reagent (mouse tail)	250 mouse tails (50 ml)	121,00 € HT
VI-102-T	DirectPCR Lysis Reagent (mouse tail)	500 mouse tails (100 ml)	202,00 € HT
VI-201-Y	DirectPCR Lysis Reagent (yolk sac)	yolk sacs (50 ml)	121,00 € HT
VI-202-Y	DirectPCR Lysis Reagent (yolk sac)	yolk sacs (100 ml)	202,00 € HT

DNAzol® Genomic DNA isolation reagent

DNAzol® is a complete and ready to use reagent for the isolation of genomic DNA from solid and liquid samples of animal and plant origin. The DNAzol procedure is based on the use of a novel guanidine-detergent lysing solution that hydrolyzes RNA and allows the selective precipitation of DNA from a cell lysate. Developed by P. Chomczynski (1), DNAzol is a patented DNA isolation method

(U.S. patent no. 5, 945, 515) that combines both reliability and efficiency with simplicity of the isolation protocol. The DNAzol protocol is fast and permits isolation of genomic DNA from a large number of samples of small or large volumes (5). During the isolation, a biological sample is lysed or homogenized in DNAzol and the genomic DNA is precipitated from the lysate with ethanol. Following an ethanol wash, DNA is solubilized in water or 8 mM NaOH. The procedure can be completed in 10 - 30 minutes with a genomic DNA recovery of 70 - 100%. The isolated DNA can be used, without additional purification, for Southern analysis, dot blot hybridization, molecular cloning, PCR and other molecular biology and biotechnology applications.

DNAzol® is for use with tissues, cells and liquid samples. 1.0 ml of DNAzol isolates DNA from 25 – 50 mg tissue or from cell pellets containing 1 – 3 x 10⁷ cells.



DN127-50	DNAzol® genomic DNA isolation reagent	50 ml	68,00 € HT
DN127-100	DNAzol® genomic DNA isolation reagent	100 ml	116,00 € HT

QuickExtract™ FFPE DNA Extraction Kit

Simple, rapid extraction of PCR-ready DNA from challenging FFPE samples

- Fast : PCR-ready DNA in minutes, not days
- Simple : No spin columns or transfer steps which helps increase yields
- Compatible : Extracted DNA is compatible with both real-time and endpoint PCR
- Safe : No xylene or phenol extractions used

Description

The analysis of nucleic acid from formalin-fixed, paraffin-embedded (FFPE) specimens is challenging due to the extensive cross-linking of all tissue components during the fixation process. These challenges include chemical modification of the DNA, cross-linking of DNA with other molecules, degradation of the DNA, and the limited amount of nucleic acid in the samples.

The QuickExtract™ FFPE DNA Extraction Kit is a fast, simple, and inexpensive method for preparing genomic DNA for PCR amplification from archival samples. The protocol requires only heat treatment to melt the paraffin, lyse the cells, decrease the formalin-induced cross-linking in the sample, and degrade compounds inhibitory to amplification. Following heat treatment, the sample DNA is ready for PCR.

Applications

Isolation of DNA from FFPE samples for PCR-based analysis, e.g., microsatellite detection, SNP detection, tumor heterogeneity studies, copy number detection, methylation analysis, and Short Tandem Repeat (STR) analysis.

Note: This product is only intended for PCR- and qPCR-based applications. If DNA is required for other molecular biology applications, consider the MasterPure™ DNA Purification Kit.

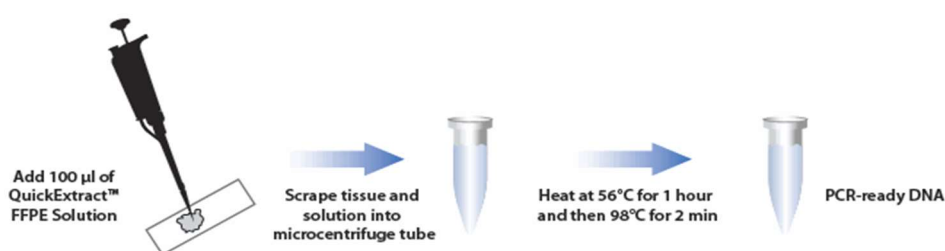
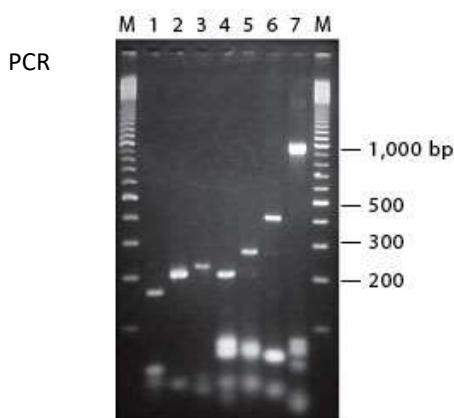


Figure : Overview of the QuickExtract™ FFPE DNA extraction procedure



amplification of DNA from a slide-mounted, FFPE preserved human skeletal muscle tissue section, extracted with the QuickExtract™ FFPE DNA Extraction Kit. Two microliters of undiluted, extracted DNA was amplified with primers for three different loci: tumor protein 53 (TP53), dystrophin (DMD), and tumor necrosis factor (TNF). The products were separated on a 3% agarose gel and were visualized with SYBR® Gold. Lane M, 100-bp DNA ladder; lane 1, exon 2 of TP53; lane 2, exon 3 of TP53; lane 3, exon 11 of TP53; lane 4, exon 6 of DMD; lane 5, exon 50 of DMD; lane 6, exon 3 of DMD; lane 7, exon 4 of TNF.

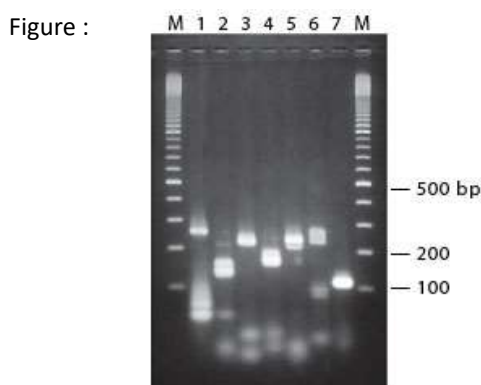


Figure : PCR amplification of DNA from slide-mounted, FFPE-preserved, human tissue sections, combined and extracted with the QuickExtract™ FFPE DNA Extraction Kit. Two microliters of undiluted, extracted DNA was amplified with primers for seven different STR loci. The products were separated on a 3% agarose gel and were visualized with SYBR® Gold. The expected allele-to-allele variation in STR sequences results in multiple products per primer set. Lane M, 100-bp DNA ladder; lane 1, RENA4; lane 2, D3S1358; lane 3, D7S820; lane 4, THO1; lane 5, D19S253; lane 6, D21S11; lane 7, AMEL.

LU-QEF81050

QuickExtract FFPE DNA Extraction Kit,

50 ml

539,00 € HT

EZ-10 96-Well Plate Animal Genomic DNA isolation kit

This kit is designed for fast isolation of genomic DNA from animal tissues, rodent tail or cultured animal cells. The kit contains a membrane embedded EZ-10 96 Well Binding Plate for binding genomic DNA in each well. Nucleotides, proteins, salts, and other impurities are washed 96 Well Genomic DNA Kit Handbook 4 away. Purified genomic DNA can be applied in most molecular biology experiments including restriction enzyme digestion, PCR, Southernblotting and so on.

Applications

Genomic DNA purification from different animal tissues.

Features:

- High yield
- Rapid and economical
- Preparation of high quality genomic DNA from various sources
- No phenol / chloroform extraction, no ethanol precipitation required

BI-BS4372	96-Well Plate Animal Genomic DNA isolation kit	2 Plates	191,00 € HT
BI-BS437	96-Well Plate Animal Genomic DNA isolation kit	5 Plates	420,00 € HT

sbeadex™ livestock kit

Genetic analysis of livestock samples always requires high-quality DNA preparations which are often challenging and labor-intensive to produce. Blood, hair, semen, ear punches, saliva and swabs are all commonly used for analysis of a huge diversity of animal species. Often, sample type specific kit systems are necessary, which typically follow different protocol steps including modified lysis conditions as well as adapted incubation times for binding and washing steps.

Often, automation of high-throughput livestock sample DNA extractions cannot be done in one parallel extraction run, which can be a significant bottleneck for high-throughput labs.

The sbeadex™ livestock kit has been developed to use just one kit, independent of sample origin, to enable extraction runs with livestock samples such as ear punches, blood, hair, saliva or semen to be done in parallel.

sbeadex livestock kits produce very high-quality DNA, suitable for all down-stream applications including next-generation sequencing, KASP™ genotyping and Chip technologies. sbeadex extraction chemistry was developed and optimised for LGCs' oKtopure™ system but can be used on other automated DNA extraction platforms.

Sample type		Animal species		
• Blood	• Semen	• Bovine	• Horse	• Fish
• Hair	• Tissue	• Chicken	• Sheep	
• Saliva		• Dog	• Goat	

LG-NAP44702	sbeadex livestock kit	960 tests	1994,00€ HT
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MAGSI-DNA Animal

MagSi-DNA Animal allows fast and cost-effective extraction of DNA from various samples like blood, semen, hairs, saliva/swabs or lysed tissue

This universal DNA purification kit is optimized to extract DNA from these sample materials with the highest purity and delivering DNA which is suitable for genotyping assays or other qPCR based analysis. The extraction chemistry is validated on different species, e.g. horse, swine, dog, cattle and can be customized to meet any specific requirements of yields, purity, working volumes. The kit can be used on KingFisher™ Flex or similar systems or on many other automated DNA purification instruments.

Features

- Short protocols, complete processing at room temperature possible (after sample lysis)
- High DNA yield and purity
- Suitable for many genomic applications such as SNP genotyping, DNA sequencing, NGS
- Suitable for animal parental testing / breeding identity checks
- Preparation time for 96 samples: 20 min after lysis

Quality

- Validated procedures for many sample materials (e.g., blood, semen, saliva, swabs (saliva/oral fluid), hair, lysed tissue)
- High molecular weight and pure DNA suitable for long-time storage
- Efficient removal of PCR inhibitors

MA-MDKT00150096	MagSi-DNA Animal	96 preps	238,00 € HT
MA-MDKT00150960	MagSi-DNA Animal	10 X 96 preps	1908,00 € HT

Plant

DNAzol® ES

DNAzol® ES is an extra strength DNAzol reagent specifically formulated for the isolation of genomic DNA from plants. The patented procedure (U.S. patent no. 5,945,515) is based on the use of a novel guanidine-detergent lysing solution that allows the selective precipitation of DNA from the lysate. The DNAzol ES protocol is fast and permits efficient isolation of genomic DNA from a variety of plant tissues. In the DNAzol ES procedure, plant samples are pulverized in liquid nitrogen and genomic DNA is solubilized in DNAzol ES. After a brief incubation, the samples are extracted with chloroform and centrifuged. The resulting aqueous phase is collected and DNA is precipitated with ethanol. The pellet is resuspended and washed with a DNAzol ES - ethanol wash solution followed by an ethanol wash and DNA solubilization. The entire procedure can be completed in about 90 minutes and the isolated DNA can be used for Southern analysis, dot blot hybridization, molecular cloning, PCR and other molecular biology and biotechnology applications.

DNAzol® ES is extra strength DNAzol for the isolation of genomic DNA from plants. 1.5 ml of DNAzol® ES isolates DNA from 0.5 g of plant tissue.

DN128-50	DNAzol® ES	50 ml	69,00 € HT
DN128-100	DNAzol® ES	100 ml	122,00 € HT

QuickExtract™ Plant DNA Extraction Solution

Rapid and efficient extraction of PCR-ready genomic DNA from plant leaf samples

- Fast : PCR-ready DNA in about 8 minutes for most samples
- Simple : No bead-beating, freezing, or grinding of plant leaf material
- Increased Yields : No centrifugation or spin columns used which reduce yields
- Compatible : Extracted DNA is compatible with both real-time and endpoint PCR
- Safe : Nontoxic reagents used throughout the procedure

Description

The QuickExtract™ Plant DNA Extraction Solution can be used to rapidly and efficiently extract PCR-ready genomic DNA from most plant leaf samples using a simple, one-tube protocol that takes only 8 minutes. Most leafy plants are suitable for DNA extraction using the QuickExtract Plant Solution, including Arabidopsis, barley, maize, emmer, pepper, rice, spelt, spinach, soybeans, and wheat.

The QuickExtract Plant method allows for the inexpensive processing of one to hundreds of samples simultaneously, without grinding the sample, centrifugation, spin columns, or any toxic organic solvent. The procedure is fully compatible with robotic automation, provides a PCR-ready sample, and is reproducible. Simply add the QuickExtract Plant solution to the sample and perform two sequential heating steps. A small aliquot of the sample is then used as a template for PCR or qPCR.

Applications

High-throughput isolation of DNA from plant leaf samples for PCR-based analysis, e.g., GMO testing.

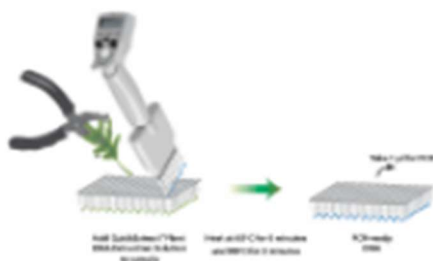


Figure : Overview of the QuickExtract™ Plant DNA extraction procedure

Figure : PCR products using QuickExtract™ Plant DNA Extraction Solution with different varieties of plant leaves. Forty cycles of RAPD were performed with DNA extracted from plant leaves using the QuickExtract Plant solution and the FailSafe™ PCR System. Lane M, 100-bp ladder, lane 1, pepper; lane 2, soybean; lane 3, spelt.

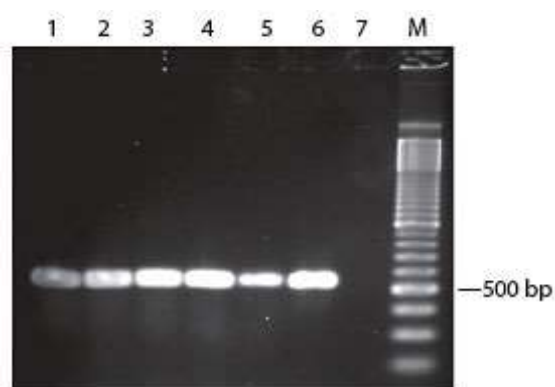


Figure : Reproducibility of PCR results with QuickExtract™ Plant DNA Extraction Solution from Arabidopsis thaliana leaves. Six individual punches of four Arabidopsis leaves were treated with QuickExtract Plant solution as described in the product information sheet. One microliter of the solution was used in a 25- μ L PCR using the FailSafe™ PCR System and primers specific for the single-copy HSC70 chromosomal gene. Aliquots were analyzed on a 2% agarose gel and the DNA was visualized by staining with SYBR® Gold. Lanes 1-6, PCR products of extracted DNA samples

LU-QEP70750	QuickExtract Plant DNA Extraction Solution	50 ml	506,00 € HT
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One-tube Plant Genomic DNA Extraction Kit

The kit is designed for rapid small-scale extraction of high quality genomic DNA from a variety of fresh or dry plant tissues. Purified DNA can be used for many downstream applications such as PCR, restriction digestion, hybridization and other applications.

Features :

- Rapid & simple
- High quality of DNA. OD260/OD280 of purified DNA is generally 1.8~1.9
- No toxic substance. The kit does not contain toxic reagents
- Easy to scale up

BI-PT71816	One-tube Plant Genomic DNA Extraction Kit	100 Preps	57,00 € HT
BI-PT71817	One-tube Plant Genomic DNA Extraction Kit	500 Preps	213,00 € HT

EZ-10 Spin Column Plant Genomic DNA Miniprep Kit

EZ-10 Spin Column Plant Genomic DNA Miniprep Kit provides a simple and convenient technique to isolate high quality DNA from plants using a rapid spin-column format. DNA of cell lysates is selectively bound to the spin column and other impurities such as proteins and salts do not bind to the column and are eliminated in flow through. No phenol extraction and ethanol precipitations are required. Purified genomic DNA is 20-50 kb in length. Purified DNA is suitable for downstream applications such as Restriction Endonuclease Digestions, PCR, and other applications.

BI-B518261-0050	EZ-10 Spin Column Plant Genomic DNA Miniprep Kit	50 Preps	51,00 € HT
BI-SK8262	EZ-10 Spin Column Plant Genomic DNA Miniprep Kit	100 Preps	88,00 € HT

EZ-10 96-Well Plate Plant Genomic DNA Miniprep Kit

The kit provides a rapid and convenient high throughput technique for mini preparation of high quality genomic DNA from various plants species. DNA of plant lysate is selectively absorbed on each column of the plate and other impurities such as proteins, salts are eliminated from the column. Each column can absorb up to 20 µg of DNA. Purified plant genomic DNA is 20-40 kb, and is suitable for downstream applications such as PCR, Real-time RT PCR, Southern blotting, Microsatellite analysis, AFLP, RFLP, and RAPD.

Features :

- Fast and Simple. Using a rapid spin and high throughput format, the entire procedure takes less than 2 hours.
- High purity of DNA. OD260/OD280 of purified DNA is generally >1.8.
- Compatible with many downstream applications such as PCR, restriction digestions, real-time PCR, multiplex PCR, RAPD, RFLP, AFLP, Southern Blotting and microsatellite analysis.
- Suitable for a wide variety of plant species and tissue types including some very recalcitrant specimens

BI-BS8361	96-Well Plate Plant Genomic DNA Miniprep Kit	2 plates	191,00 € HT
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sbeadex™ plant kit

Customised kit solutions for pure plant DNA purifications

Successful DNA analysis requires reliable and high quality sample purifications. Plant material is always a challenge because it contains different types of potential PCR inhibitors e.g. polysaccharides or polyphenols.

The sbeadex™ plant kit has been developed for flexible and reliable DNA purifications from plant leaves, roots and other plant material.

- High DNA quality for all downstream applications including NGS
- Development of customised protocols
- Lysis conditions : tailored to specific requirements of sample materials
- Highly flexible volumes of kit components and batch sizes
- Quicker results : speed of purifications can be optimised
- Compatible with most popular robotic platforms

DNA preparation protocol

sbeadex kits use magnetic separation for the preparation of nucleic acids. Super paramagnetic particles coated with sbeadex surface chemistry are used to capture nucleic acids from a sample. sbeadex utilises a novel two-step binding mechanism which combined with the washing steps removes impurities present in the sample matrix. After washing, the nucleic acid is eluted and is ready for use in the downstream processes.



Application

Extraction protocols have been created for plant material including leaf, seed, bark, pulp and root. Biosearch Technologies offers pilot studies in case of non-tested plant materials or species.

Advantages

- High quality – consistent A260/280 ratio and improved A260/230 ratio
- Easy to automate – magnetic microparticle handling offers flexibility in automated processing
- Convenient – all buffers are ready to use
- Absence of PCR inhibitors – no organic solvents or chaotropic salts in final wash buffers.

LG-NAP41601	sbeadex mini plant	20 - 30 mg starting material	96 purifications	174,00 € HT
LG-NAP41602	sbeadex maxi plant	80 - 100 mg starting material	96 purifications	274,00 € HT
LG-NAP41620	sbeadex maxi plant	80 - 100 mg starting material	960 purifications	2199,00 € HT

MAGSI-DNA Plant CLS

MagSi-DNA Plant CLS kit allows fast and cost-effective extraction of DNA from any plant tissue type. **CLS** stands for **Cotyl**, **Leaf** and **Seed**, which are the most commonly used sample types in Plant Breeding.

The MagSi-DNA Plant CLS kit contains all the components necessary to optimize your specific DNA extraction procedure, with regards to yield, purity, and working volumes.

The kit can be used on any open DNA extraction robot or liquid handling system. The kit has been tested with many different plant species.

Features

- Kit is especially designed for workflow efficiency
- Contains 2 lysis buffers for different samples in 1 extraction procedure
- Preparation time for 96 samples: 25 min. after lysis
- High yields and excellent DNA purity
- Suitable for downstream applications such as SNP genotyping by PCR or NGS
- No phenol-chloroform extraction
- Ready-to-use kit – Avoiding adding alcohols
- Fast and convenient protocols that are easily adaptable to high-throughput automation

Table Overview of plant species tested (not exhaustive)

Barley	Melon	Sugar beet	Maize	Asparagus	Tomato	Rice	Cucumber
Turnip	Wheat	Lettuce	Chrysant	Rape	Onion	Wheat	Lettuce
Gerbera	Soy	Sunflower	Spinach	Petunia	Strawberry	Squash	Rose

MA-MDKT00260096	MagSi-DNA Plant CLS	96 preps	218,00 € HT
MA-MDKT00260960	MagSi-DNA Plant CLS	10 x 96 preps	1615,00 € HT
MA-MDKT00260196PF	rQ MagSi-DNA Plant CLS *	96 preps	307,00 € HT

* All kit components except lysis buffers provided pre-filled in 96 DeepWell plates for PurePrep 96 / KingFisher™ Flex 96

Soil

EZ-10 Spin Column Soil DNA Miniprep Kit

This kit is designed for the preparation of high-quality DNA from sand, soil, and fecal samples. These samples are considered challenging as they contain rich humic acid that may interfere with PCR reactions. The kit provides simple, rapid isolation of PCR-ready total DNA from soil. Purified DNA does not contain humic acid and can be used for PCR and other downstream applications. The molecular size of the purified DNA is around 20-50 kb. Average DNA yields are 5-50 µg per gram of the soil sample.

BI-ST82316	EZ-10 Spin Column Soil DNA Miniprep Kit	50 Preps	49,00 € HT
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Yeast

MasterPure™ Yeast DNA Purification Kit

Obtain high yields of quality DNA from yeast with this easy to use kit

- **Fast** : Obtain purified DNA in less than 40 minutes
- **Flexible** : Purify DNA from a wide variety of yeast species, including *Candida*, *Saccharomyces*, *Pichia*, and *Schizosaccharomyces*, and filamentous fungi such as *Aspergillus*2 and *Penicillium*
- **High Quality DNA** : Purify high molecular weight genomic DNA that is ready to use in many molecular biology applications, including PCR amplification, restriction endonuclease digestion, Southern blotting, genomic library preparation and fungal identification and typing
- **High Yields** : Purify more yeast genomic DNA than other commercially available kits
- **Simple** : No enzymatic lysis, bead beating, columns, phenol or other organic solvents are used

Description

The MasterPure™ Yeast DNA Purification Kit enables efficient, high-yield purification of high-molecular-weight DNA from yeast and other fungi. The protocol involves nonenzymatic cell lysis at 65°C, followed by removal of protein by precipitation, and nucleic acid precipitation and resuspension. No lyticase, proteolytic enzymes, or bead-beating are used in the procedure. Yeast genomic DNA yields using the MasterPure Kit are much higher than yields obtained with other commercially available kits. The protocol can be easily adjusted for larger or smaller samples, including single yeast colonies. The recovered nucleic acid can be used directly in most applications, including PCR amplification.

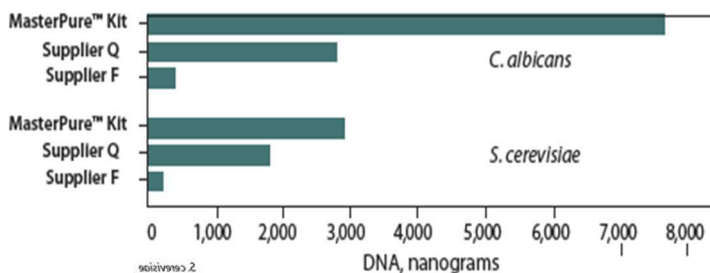


Figure : Comparative yields of DNA from the MasterPure™ Yeast DNA Purification Kit and competitor kits. DNA was quantitated specifically with Hoechst fluorescent dye 33258, which gives minimal fluorescence with RNA. The data represent the average DNA yields determined by fluorometry from two experiments with *S. cerevisiae* and *C. albicans*. The MasterPure Kit produced up to 17 times more DNA from *C. albicans* and 12 times more DNA from *S. cerevisiae* than other kits

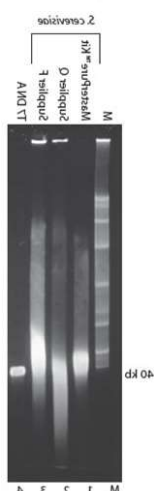


Figure : Size distribution of DNA produced from the MasterPure™ Kit. For each kit indicated, a 500-ng aliquot of purified yeast DNA was analyzed by pulse-field gel electrophoresis on a 1% agarose gel. The gel was stained with ethidium bromide. The majority of DNA isolated with the MasterPure Kit was estimated to be in the 40- to 50-kb size range, while degradation to smaller fragments was observed with other kits. Lane M, lambda DNA ladder ; Lane 4, T7 DNA (40 kb).

LU-MPY80200	MasterPure Yeast DNA Purification Kit	200 Preps	629,00 € HT
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Rapid Yeast Genomic DNA Extraction Kit

Rapid Yeast Genomic DNA Extraction Kit is designed for rapid small-scale extraction of high quality genomic DNA from yeast. Yeast cell wall is digested by Snailase (or lyticase, zymolyase). Whole cell is lysed by a special buffer and DNA is then precipitated and washed by alcohol. Purified DNA can be used for many downstream applications such as PCR, restriction enzyme digestion, hybridization and other applications.

Features

- Rapid and Simple.
- High Quality of DNA. OD260/OD280 of purified DNA is generally 1.8~1.9.
- No Toxic Substance. The kit does not contain toxic reagents.
- Easy to Scale Up.

BI-BS8227	Rapid Yeast Genomic DNA Extraction Kit	50 Preps	41,00 € HT
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EZ-10 Spin Column Yeast Genomic DNA Miniprep Kit

EZ-10 Spin Column Yeast Genomic DNA Miniprep Kit provides a simple and convenient technique to isolate high quality DNA from yeast using a rapid spin-column format. DNA of cell lysate is selectively bound to the spin column and other impurities such as proteins, salts do not bind on the column and are eliminated in flow through. No phenol extraction, no ethanol precipitations are required. The kit is also suitable for isolation of yeast genomic DNA from colonies on dish. Purified genomic DNA is 20-50 kb in length. Purified DNA is suitable for downstream applications such as Restriction Endonuclease Digestions, PCR, and other applications.

BI-BS8257	EZ-10 Spin Column Yeast Genomic DNA Miniprep Kit	50 Preps	65,00 € HT
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EZ-10 96-Well Plate Yeast Genomic DNA Miniprep Kit

96 Well Plate Yeast Genomic DNA Miniprep Kit provides a simple and convenient high throughput approach to isolate high quality DNA from yeast. DNA of cell lysate is selectively adsorbed in 96-well plate and impurities such as proteins, salts and nucleotides are No phenol/chloroform extraction, no ethanol precipitation is required. Purified genomic DNA can be up to 20 washed away. Purified genomic DNA can be used for PCR, 20 kb in length. Restriction Endonuclease Digestions and other downstream applications.

BI-BS8357	96-Well Plate Yeast Genomic DNA Miniprep Kit	2 plates	191,00 € HT
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PCR Products purification kits

SAP-Exo kit

The Kit contains two hydrolytic enzymes, recombinant Shrimp Alkaline Phosphatase (rSAP) and Exonuclease I (Exo I). The combination of these enzymes ensures complete dephosphorylation of dNTPs and degradation of residual primers, enabling downstream applications, such as sequencing, genotyping, cloning or SNP analysis. The reagents are active in commonly used PCR buffers and eliminates the need for additional buffer exchange.

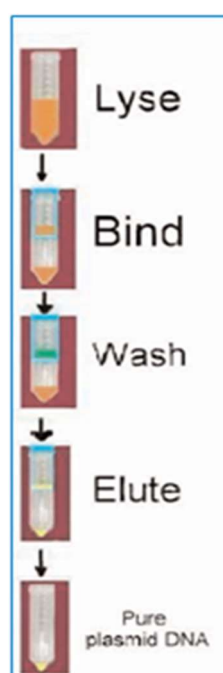
Protocol :

- Add 2 µl of SAP-Exo mix directly to 5 µl PCR product (or scale up, i.g.4 µl SAP-Exo mix to 10 µl PCR product) and mix well
- Incubate for 10 minutes at 37 °C
- Inactivate for 10 minutes at 80 °C
- PCR products are ready for downstream applications without any need for further processing.

JE-PP-218S	SAP-Exo Kit	500 µl	195,00 € HT
JE-PP-218L	SAP-Exo Kit	5 X 500 µl	782,00 € HT

EZ-10 Spin Column PCR products purification Kit

BI-BS363	EZ-10 Spin Column PCR products purification Kit	50 Preps	43,00 € HT
BI-BS364	EZ-10 Spin Column PCR products purification Kit	100 Preps	70,00 € HT
BI-BS664	EZ-10 Spin Column PCR products purification Kit	250 Preps	158,00 € HT



The kit utilizes membrane technology which selectively adsorbs up to 20 µg PCR products or DNA fragments in the presence of specialized binding buffer. Primers (<40-mer), nucleotides, enzymes, mineral oil and all other impurities are not able to bind and hence eliminated from the column.

PCR products or DNA fragments are eluted readily in elution buffer.

No phenol/chloroform extraction, no ethanol precipitation. Whole procedure takes approximate 12~15 minutes.

Purified PCR products and DNA fragments can be used readily in all downstream applications including digestion, cloning and DNA sequencing. The kit can also be used for concentration of DNA fragments as well as removal of impurities such as salt and proteins.

Purification Kit BI-BS363, BI-BS364, BI-BS664 Recovery of 40bp-40kb DNA fragments from reaction solutions

EZ-10 Spin Column DNA Gel Extraction Kit

The EZ-10 Spin Column Kits provide a simple and efficient method for purification of plasmid DNA, extraction of DNA from agarose gels, and purification of DNA from enzymatic reactions such as PCR or restriction enzyme digestions.

The DNA is selectively adsorbed in silica gel-based EZ-10 column and other components are washed away. The DNA is then eluted off the column and can be used for any downstream applications.

The purification method used in these protocols does not require use of phenol, chloroform, or CsCl.

The DNA is purified without an additional step of ethanol precipitation

Features

- Simple, Fast and Efficient
- Preparation of high quality DNA which can be used in any downstream applications such as sequencing, PCR, transformation or restriction digestions
- High Yield and Reproducible
- High Capacity - Up to 10µg of DNA per column

EZ-10 Spin Column PCR Products EZ-10 Spin Column DNA Gel Extraction Kit BI-BS353, BI-BS354, BI-BS654 Recovery of 40bp-40kb DNA fragments from agarose gels

BI-BS353	EZ-10 Spin Column DNA Gel Extraction Kit	50 Preps	43,00 € HT
BI-BS354	EZ-10 Spin Column DNA Gel Extraction Kit	100 Preps	70,00 € HT
BI-BS654	EZ-10 Spin Column DNA Gel Extraction Kit	250 Preps	158,00 € HT

EZ-10 96-Well Spin Column PCR Products Purification Kit

The kit provides a simple, efficient and high throughput method for purification of PCR products and DNA from enzymatic reactions. The kit utilizes silica-gel membranes which selectively absorb up to 10µg of DNA fragments in each well in the presence of specialized binding buffers. Nucleotides, oligos (<40-mer), enzymes, mineral oil and other impurities do not bind to the membranes and are washed away. The DNA fragments can then be eluted off the column in small volume and used directly in downstream applications.

Features

- Rapid and economical : entire procedure takes about 30 minutes to complete and 96 samples can be purified in parallel.
- High yields (60 -80 %) : it is suitable to recover 100 bp - 40 kb DNA fragments.
- Efficient removal of contaminants : purified DNA can be used in any downstream applications such as sequencing , labeling, restriction enzymatic digestions , ligations or transformations.
- Convenient and environmentally friendly : No phenol / chloroform extraction or ethanol precipitation required.

BI-BS3652	96-Well Spin Column PCR Products Purification Kit	2 Plates	135,00 € HT
BI-BS365	96-Well Spin Column PCR Products Purification Kit	5 Plates	266,00 € HT

Plasmid DNA purification kits

EZ-10 Spin Column Plasmid DNA Minipreps Kit

The EZ-10 Spin Column Kits provide a simple and efficient method for purification of plasmid DNA, extraction of DNA from agarose gels, and purification of DNA from enzymatic reactions such as PCR or restriction enzyme digestions. The DNA is selectively adsorbed in silica gel-based EZ-10 column and other components are washed away. The DNA is then eluted off the column and can be used for any downstream applications. The purification method used in these protocols does not require use of phenol, chloroform, or CsCl. The DNA is purified without an additional step of ethanol precipitation

Features

- Simple, Fast and Efficient
- Preparation of high quality DNA which can be used in any downstream applications such as sequencing, PCR, transformation or restriction digestions
- High Yield and Reproducible
- High Capacity - Up to 10µg of DNA per column

EZ-10 Spin Column Plasmid DNA Minipreps Kit BI-BS413, BI-BS414, BI-BS614, this kit can be used for purification of plasmid DNA from 40bp-40kb

BI-BS413	EZ-10 Spin Column Plasmid DNA Minipreps Kit	50 Preps	43,00 € HT
BI-BS414	EZ-10 Spin Column Plasmid DNA Minipreps Kit	100 Preps	70,00 € HT
BI-BS614	EZ-10 Spin Column Plasmid DNA Minipreps Kit	250 Preps	158,00 € HT

EZ-10 Spin Column Plasmid DNA Minipreps Kit BI-BS4139, BI-BS4149, BI-BS6149, this kit can be used for purification of low copy plasmid DNA.

BI-BS4139	EZ-10 Spin Column Plasmid DNA Minipreps Kit, Low Copy	50 Preps	57,00 € HT
BI-BS4149	EZ-10 Spin Column Plasmid DNA Minipreps Kit, Low Copy	100 Preps	93,00 € HT
BI-BS6149	EZ-10 Spin Column Plasmid DNA Minipreps Kit, Low Copy	250 Preps	209,00 € HT

EZ-10 Spin Column Endotoxin-Free Plasmid DNA Miniprep Kit

EZ-10 Spin Column Endotoxin-Free Plasmid DNA Miniprep Kit provides a simple, rapid and efficient method for plasmid DNA isolation from bacteria using a rapid spin-column. DNA in lysate is selectively absorbed on the column while other impurities such as proteins and salts are eliminated. Average yield of DNA is around 10 µg. The kit also produces Endotoxin-Free plasmid by combining alkali lysis methodology with a unique Endotoxin Eliminator reagent. Final DNA is ready for further research application such as transfection, expression in animal cell strains, or as nucleotide vaccine.

BI-BS71918	EZ-10 Spin Column Endotoxin-Free Plasmid DNA Miniprep Kit	50 Preps	107,00 € HT
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EZ-10 96-Well Plate Plasmid DNA Miniprep Kit

The EZ-10 96 Well Spin Column Plasmid DNA Purification kit provides a simple, efficient and automated high throughput method for plasmid DNA purifications. Plasmid DNA is selectively adsorbed in silica gel-based EZ-10 columns in the 96 Well Binding Plate and other impurities such as proteins, salts and nucleotides are removed. Plasmid DNA can be eluted in a small volume of Tris buffer.

BI-BS4152	96-Well Plate Plasmid DNA Miniprep Kit	2 Plates	135,00 € HT
BI-BS415	96-Well Plate Plasmid DNA Miniprep Kit	5 Plates	266,00 € HT
BI-B814152-0002	96-Well Plate Plasmid DNA Miniprep Kit, Vacuum-Based	2 Plates	135,00 € HT
BI-B814152-0005	96-Well Plate Plasmid DNA Miniprep Kit, Vacuum-Based	5 Plates	266,00 € HT

Ultra-Fast 96-Well Plate Plasmid DNA Miniprep Kit

Ultra-Fast 96-Well Plate Plasmid DNA Miniprep Kit is designed for one step plasmid DNA purification from bacterial culture in a 96-well high throughput format. Using one buffer solution and replacing traditional three-buffer system, the kit releases plasmid DNA rapidly from bacterial culture. Although the yield of the recovered plasmid DNA is slightly lower than that from regular 96-Well Plate Kits, it is simpler and faster. Bacterial cultures are lysed and the lysates are directly loaded onto membrane of each column in a 96- Well plate. Plasmid DNA is selectively bound onto the 96-well plate and other impurities are washed away. Pure plasmid DNA is eluted in Elution buffer or water, and can be readily used for many downstream applications. This kit is used for preparation of up to 6-8ug of pure plasmid DNA.

BI-BS92028	Ultra-Fast 96-Well Plate Plasmid DNA Miniprep Kit	2 Plates	213,00 € HT
BI-BS92029	Ultra-Fast 96-Well Plate Plasmid DNA Miniprep Kit	5 Plates	422,00 € HT

EZ-10 Spin Column Yeast Plasmid DNA Miniprep Kit

EZ-10 Spin Column Yeast Plasmid DNA Miniprep Kit provides a simple and efficient method for Mini plasmid DNA purification from yeast cell. Yeast cell wall is first being degraded by enzymatic digestion (lyticase zymolyase, or snailase). Genomic DNA, protein and RNA are then precipitated through normal alkali lysis. Supernatant containing plasmids are transferred onto EZ-10 Spin Column. Up to 10 µg of DNA plasmid DNA can be selectively adsorbed on silica gel-based EZ-10 Spin Column while other impurities such as proteins, salts are washed away. Purified plasmid DNA can be used for any downstream application such as sequencing, restriction enzyme reactions, labelling, transformation, PCR and Southern-blot.

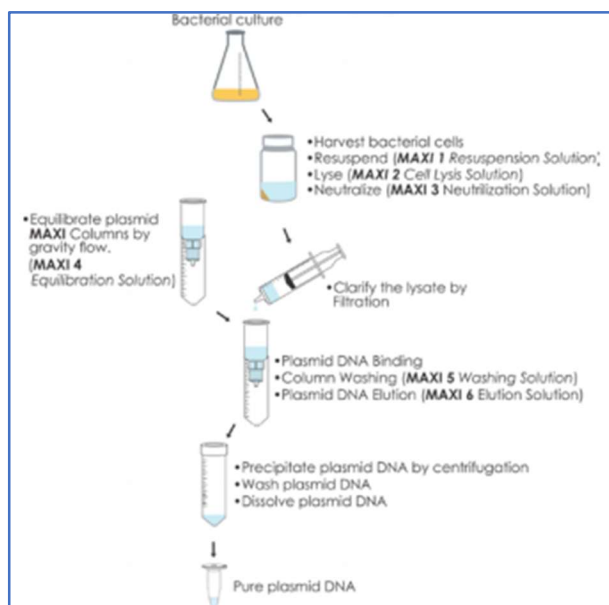
BI-BS467	EZ-10 Spin Column Yeast Plasmid DNA Miniprep Kit	10 Preps	26,00 € HT
BI-BS468	EZ-10 Spin Column Yeast Plasmid DNA Miniprep Kit	50 Preps	88,00 € HT
BI-BS469	EZ-10 Spin Column Yeast Plasmid DNA Miniprep Kit	250 Preps	339,00 € HT

Plasmid DNA Maxiprep

Plasmid DNA Extraction Maxiprep Kit is an excellent tool offering a rapid and economic method to purify plasmid DNA from bacteria cultures.

This technology is based on alkaline lysis and purification by Anion-exchange chromatography. Compared with other harmful and time-consuming procedures such as phenol / chloroform extraction and ethanol precipitation, Bio Basic Plasmid DNA Extraction Kit shortens the handling time to about 2 hours.

The high quality plasmid DNA can be used directly for any downstream applications.



BI-BS4654	Plasmid DNA Maxiprep	4 Preps	95,00 € HT
BI-9K-006-0023	Plasmid DNA Maxiprep	10 Preps	230,00 € HT
BI-BS466	Plasmid DNA Maxiprep	20 Preps	455,00 € HT
BI-9K-006-0026	Plasmid DNA Maxiprep	30 Preps	680,00 € HT

Brief procedure for Plasmid DNA Extraction MAXI Prep Kit (BI-BS4654, BI-BS466)

EZ-500 Spin Column Endotoxin-Free Plasmid DNA Maxi-Preps Kit

EZ-500 Spin Column Endotoxin-Free Plasmid DNA Maxi-Preps Kit is an excellent tool offering a rapid and economic method to purify plasmid DNA from bacterial cultures. This technology is based on alkaline lysis and purification by Anion-exchange chromatography. Compared with other harmful and time-consuming procedures such as phenol/ chloroform extraction and ethanol precipitation, Bio Basic Plasmid DNA Extraction Kit shortens the handling time to about 2 hours. The high quality plasmid DNA can be used directly for any downstream application.

Specifications

Sample Size	Yield	Handling Time
100-250mL of bacterial culture for high copy plasmids	Up to 500 µg for high copy plasmids	About 2 hours
200-400 mL of bacterial culture for low copy plasmids		

BI-SK1249	EZ-500 Spin Column Endotoxin-Free Plasmid DNA Maxi-Preps Kit	4 Preps	134,00 € HT
BI-SK1250	EZ-500 Spin Column Endotoxin-Free Plasmid DNA Maxi-Preps Kit	20 Preps	648,00 € HT

DNA Clean up & concentration

NEW !

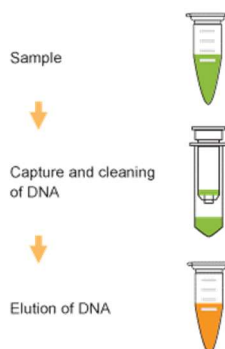
The EpiQuik™ DNA Clean and Concentrator Kit is a complete set of essential components suitable for cleaning and concentrating DNA from various DNA samples, especially from those with low concentrations of DNA such as microdissection samples, paraffin-embedded tissues, restriction enzyme digestions, PCR reactions, and home-made minipreps. The kit has the following advantages and features :

- The fastest procedure available (< 5 minutes)
- The cleaned and concentrated DNA is ultra-pure with efficient removal of contaminants (salts, proteins, enzymes, nucleotides, PCR inhibitors, primers, etc.)
- High recovery of DNA (>90% recovery of input DNA)

Background Information

DNA cleanup is often needed to remove buffer salts, enzymes, or other substances that could affect downstream applications. The EpiQuik DNA Clean and Concentrator Kit ensures ready-to-use DNA no matter what the downstream application is.

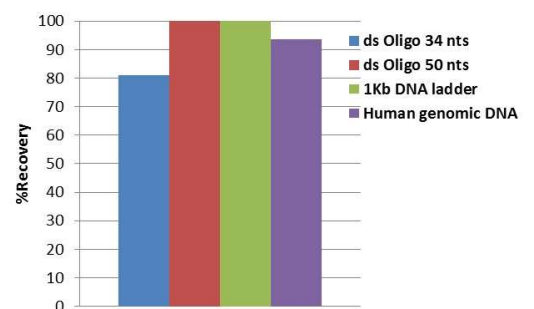
Principle & Procedure



This kit applies a proprietary DNA binding buffer to the DNA sample. The DNA in the sample will tightly bind to the filter of the Fast-Spin Column. After washing it with the washing buffer, the DNA is easily recovered in 8-10 μ l with elution solution. The cleaned and concentrated DNA is ready for downstream application.

Starting Material

The amount of starting materials can be up to 300 μ l of liquid volume, with the best volume of 200 μ l.



EP-P-1068-050	EpiQuik DNA Clean and Concentrator Kit	50 preparations	113,00 € HT
EP-P-1068-100	EpiQuik DNA Clean and Concentrator Kit	100 preparations	215,00 € HT

RNA

RNA extraction selection guide

Sample source	Name	References	Sample/Quantity	Time	Column	Magnetic Beads
Bacteria, Cells & Tissue	RNAzol®RT	RN190-50 RN190-100 RN190-200 RN190-500	<ul style="list-style-type: none"> tissues, cells, liquid samples or blood 100 mg tissue/ml RNAzol® RT 10⁷ cells/ml RNAzol® RT 	60 min		
	Quick Extract™	LU-QER090150	10 ³ -10 ⁶ cells	6 min		
	RNAzol®RT column kit	RC 290	<ul style="list-style-type: none"> 2 mg tissue or 10⁵ cells (small RNA)/ml RNAzol® RT up to 100 mg tissue (large RNA)/ml RNAzol® RT 	30 min	✓	
	EZ-10 DNAaway RNA Miniprep Kit	BI-BS88133 BI-BS88136	<ul style="list-style-type: none"> animal or human cells and tissues up to 10⁷ cells 15-30 mg animal tissue 25-30 mg plant tissue 	20 min	✓ ✓	
	EZ-10 Spin Column Total RNA Minipreps Super Kit	BI-BS583 BI-BS584 BI-BS784	<ul style="list-style-type: none"> Bacteria, fungi, animal, or plant cells and tissues 10⁶ cells 4 cm² adherent cells 10-20 mg animal tissue 25 mg plant tissue 2.10⁹ bacteria 	20 min	✓	
Blood, body fluids	TRI Reagent® BD	TB126-50 TB126-100 TB126-500	0.2 - 0.25 ml whole blood, plasma or serum/0.75 ml TRI Reagent®BD	30 min		
	Rapid Blood RNA isolation kit	BI-BT4182 BI-BT4183 BI-BT4184	0.2-0.4 ml anticoagulated blood	40 min		
	RNAzol® BD	RB192-50 RB192-100 RB192-500	1 ml whole blood, plasma or serum/2 ml RNAzol®BD	90 min		
	RNAzol® BD column kit	RC292	1 ml whole blood, plasma or serum/2 ml RNAzol®BD	60 min	✓	
	EZ-10 Spin column Blood RNA Miniprep kit	BI-BS82313	0.1-0.3 ml fresh anticoagulated whole blood	15 min	✓	
Plant	Rapid Plant RNA isolation kit	BI-PT4191	25-50 mg plant tissue	40 min		
	EZ-10 Spin column Plant RNA Miniprep kit	BI-BS82314	25-50 mg plant tissue	30 min	✓	
Yeast	MasterPure™ Yeast RNA Purification kit	LU-MPY03100	1-1.5 ml of a mid-log culture	35 min		

RNA Clean up & concentration

EZ-10 Spin Column RNA Clean-up & Concentration kit

EZ-10 Spin Column RNA Cleanup & Concentration kit is designed for rapid purification and concentration from *in vitro* transcription products or total RNA isolated from various methods such as labeling or DNase digestion.

Features

- Recovery of RNAs larger than 20nt.
- No toxic organic chemicals used.
- Rapid and convenient, the whole procedure only take 5 minutes.
- Rate of recovery higher than 80%.
- Compatible with most downstream applications.

BI-BS91315	EZ-10 Spin Column RNA Clean-up & Concentration kit	50 Preps	73,00 € HT
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EZ-10 96-Well Plate RNA Cleanup and Concentration Kit

EZ-10 Spin Column RNA Cleanup & Concentration kit is designed for rapid purification and concentration from *in vitro* transcription products or total RNA isolated from various methods such as labeling or DNase digestion. Storage and Stability Transportation at room temperature. Upon receipt, store all components at 4°C. The kit is stable for up to 12 months at 4°C.

Features

- Recovery of RNA larger than 20nt.
- No toxic organic chemicals used.
- Rapid and convenient, the whole procedure takes only 5 minutes.
- Rate of recovery higher than 80%.
- Compatible with most downstream applications.

BI-BRC1251	96-Well Plate RNA Cleanup and Concentration Kit	2 Plates	266,00 € HT
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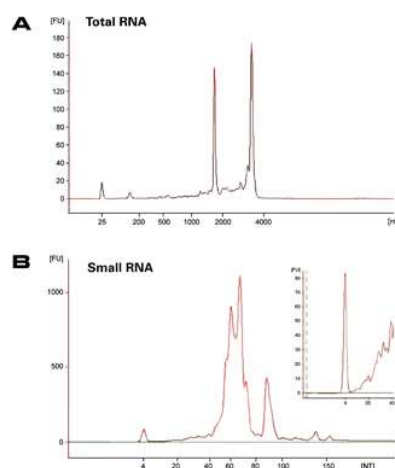
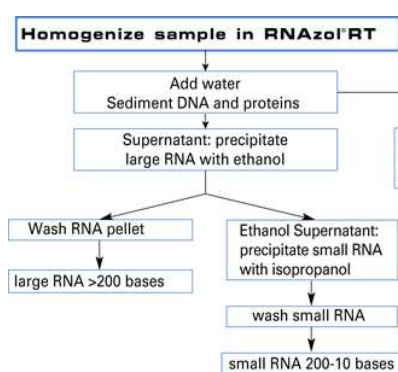
Bacteria, Cells & Tissues

RNAzol® RT

RNAzol® RT is the most effective reagent for isolation of total RNA and small RNA from samples of human, animal, plant, bacterial and viral origin. This patented reagent provides higher yield and quality of isolated RNA than previous reagents based on the single-step method. RNAzol® RT isolates pure and undegraded RNA that is ready for RT-PCR without DNase treatment.

- No chloroform-induced phase separation is necessary to obtain pure RNA. Just add water to remove DNA, proteins, polysaccharides and other contaminants.
- The isolation procedure can be completed in less than one hour and is performed at room temperature, including all centrifugation steps.

- RNAzol® RT isolates total RNA, or large RNA and small RNA in separate fractions. The large RNA fraction contains rRNA and mRNA. The small RNA fraction contains tRNA, small RNA and microRNA down to 10 bases.
- The isolated RNA is ready for RT-PCR, qRT-PCR, microarrays, poly A+ selection, northern blotting, RNase protection assay and other molecular biology applications.
- Due to the removal of impurities, the RNA pellets are smaller and solubilize more easily than pellets obtained from previous single-step reagents.
- In addition, RNAzol® RT allows for the simultaneous isolation of RNA and DNA.
- RNAzol® RT is used to isolate RNA from tissues, cells, liquid samples or blood. One milliliter is sufficient to process up to 100 mg tissue yielding 50 – 700 µg of large RNA (>200 bases) and 8 – 120µg of small RNA (200 – 10 bases).



Agilent RNA Nano Chip and Small RNA Chip analysis of rat liver total RNA (A) and small RNA (B), respectively. High quality total RNA had a RIN value of 9.2 and 28/18 S ratio of 1.6. miRNA region (B, inset) represents about 5% of small RNA.

RN190-50	RNAzol® RT	50 ml	80,00 € HT
RN190-100	RNAzol® RT	100 ml	142,00 € HT
RN190-200	RNAzol® RT	2 X 100 ml	259,00 € HT
RN190-500	RNAzol® RT	500 ml	658,00 € HT

QuickExtract™ RNA Extraction Kit

Rapid extraction of RT-PCR-ready RNA from cultured mammalian cells

- Fast : Extract end-point and real-time RT-PCR ready RNA in minutes from low to high numbers of samples
- Simple : Single tube protocol
- Compatible : Extracted RNA is compatible with both real-time and endpoint RT-PCR
- Automation-friendly : Simple protocol makes incorporation into an automated workflow easy
- Flexible : A Dnase I digestion step can be added for sensitive downstream applications when necessary
- Safe : No toxic reagents used

Description

The QuickExtract™ RNA Extraction Kit is a fast, simple way of preparing RNA for RT-PCR (both end-point and real-time). The single-tube system requires only vortex mixing to lyse the cells, and prepare the RNA for cDNA synthesis. The result is easy processing of one to hundreds of samples in minutes, with no sample loss or toxic organic solvents. The QuickExtract RNA Extraction Solution works with cultured adherent and suspension cells including buccal cells, and has been tested on human, mouse, rat, E. coli, and S. aureus cell cultures. It is not suitable for tissue samples or plant samples. An optional DNase I treatment may improve certain downstream applications.

Applications

Preparation of RNA from cultured adherent and suspension cells for RT-PCR.

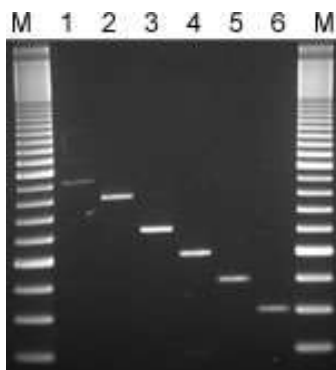


Figure : End-point RT-PCR of different regions of a 14 kb message using HeLa cell extract with the QuickExtract™ RNA Extraction Kit. A sample containing 105 HeLa cells was lysed in 100 µL of QuickExtract RNA Extraction Solution by vortex mixing. The lysate was reverse transcribed with the MMLV Reverse Transcriptase 1st Strand cDNA Synthesis Kit using standard conditions and random primers. The cDNA was then amplified with six primer sets to p532 using the FailSafe™ PCR System. Lane M, 100 bp ladder; Lane 1, 12984 to 13892; lane 2, 9406 to 10202; lane 3, 5194 to 5802; lane 4, 4191 to 4690; lane 5, 2280 to 2676; and lane 6, 1029 to 1329

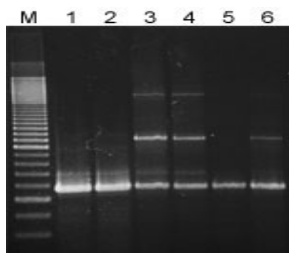


Figure : Comparative yield of RT-PCR product with different RNA extraction kits. Lysates were prepared according to manufacturers' instructions and used as template to produce cDNA using the MMLV RT 1st Strand cDNA Synthesis Kit, followed by PCR using the FailSafe™ PCR System with primers for the ALDOA gene. Products were separated on a 2% agarose gel and stained with SYBR® gold. Lane M, 100 bp ladder; lanes 1 and 2, QuickExtract™ RNA Extraction Kit; lanes 3 and 4, kit from Vendor 1; lanes 5 and 6, kit from Vendor 2

LU-QER090150

QuickExtract RNA Extraction Kit

50 ml

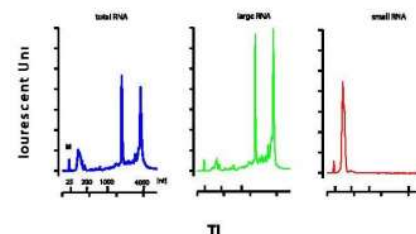
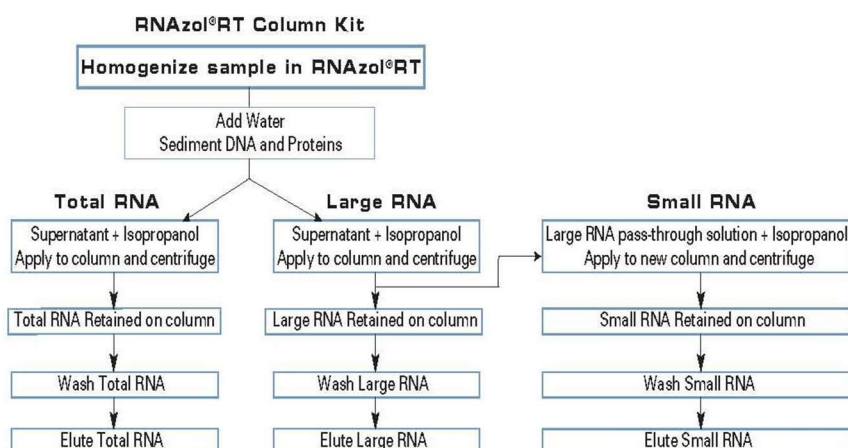
950,00 € HT

RNAzol® RT column kit

The RNAzol® RT Column Kit combines RNAzol® RT, the most effective reagent for isolation of RNA, with a versatile and universal column in one procedure. This unique Kit isolates large RNA and small RNA in separate fractions, or total RNA in a single fraction. The RNAzol® RT Column Kit accommodates 50 total, large or small RNA isolations. The multiple applications available with this Kit make it one of the most cost effective and efficient RNA isolation procedures available.

- The universal column can be used to isolate total RNA, large RNA, or small RNA.
- The large RNA fraction includes long non-coding RNA, mRNA and rRNA.
- The small RNA fraction includes tRNA, small rRNA and microRNA down to 10 bases.
- Isolate total and large RNA fractions in 30 minutes. Isolate small RNA in 60 minutes.
- At least 300 µg RNA can be isolated on a single column.

- Isolates pure and undegraded RNA from solid and liquid samples of human, animal, plant, bacterial and viral origin.



RC290

RNAzol® RT column kit

50 Preps

287,00 € HT

EZ-10 DNAaway RNA Miniprep Kit

Animal and Tissue RNA Isolation Kit with genomic DNA (gDNA) removal (EZ-10 DNAaway)

The EZ-10 DNAaway RNA Mini-Preps Kit is designed to purify RNA from small amounts of animal cells or tissues. Samples are lysed and homogenized by Buffer Lysis-DR. Genomic DNA contamination is effectively removed using a specially gDNA Eliminator Column. The purified RNA is absorbed on RZ-10 RNA Column. Finally, the RNA is eluted from RZ-RNA Column. The purified RNA is ready to use and is ideally suited for downstream applications that are sensitive to low amounts of DNA contamination, such as quantitative, real-time RT-PCR. The procedure is simple and fast, requires no need for phenol/chloroform extraction. The whole procedure takes less than 30 minutes.

Features

- Provides efficient gDNA Eliminator Column to remove DNA during RNA purification
- Completely removal of DNA contaminant
- The entire procedure can be completed in 30 minutes
- High yield and reproducible
- Nophenol/chloroform extraction or precipitation required
- High purity RNA is suited for downstream applications that are sensitive to low amounts of DNA contamination

BI-BS88133

EZ-10 DNAaway RNA Miniprep Kit

50 Preps

114,00 € HT

BI-BS88136

EZ-10 DNAaway RNA Miniprep Kit

250 Preps

443,00 € HT

EZ-10 Spin Column Total RNA Minipreps Super Kit

This kit is designed for fast isolation of total RNA from bacteria, yeast, fungi, plant and animal tissues. The kit contains a membrane embedded spin column for binding up to 10 µg of RNA. Nucleotides, proteins, salts and other impurities do not bind to the EZ-10 Column

Applications

- Preparation of total RNA from various sources
- RT-PCR
- Differential display
- cDNA synthesis
- PolyA+ RNA selection
- RNase/S1 nuclease protection

Features

- Preparation of high quality total RNA from animal cells or other sources
- Rapid and Economical : entire procedure takes about 20 minutes (Note : timing for preparation of samples is not included)
- High yield
- No phenol/chloroform extraction or ethanol precipitation needed

BI-BS583	EZ-10 Spin Column Total RNA Minipreps Super Kit	20 Preps	41,00 € HT
BI-BS584	EZ-10 Spin Column Total RNA Minipreps Super Kit	100 Preps	161,00 € HT
BI-BS784	EZ-10 Spin Column Total RNA Minipreps Super Kit	250 Preps	318,00 € HT

Blood, body fluids

TRI Reagent®BD

TRI Reagent® BD is a complete and ready to use reagent for isolation of total RNA or for the simultaneous isolation of RNA, DNA and proteins from serum, plasma or whole blood. TRI Reagent® BD is an adaptation of the popular single-step method of total RNA isolation permitting fast and efficient processing of blood derivatives. This highly reliable technique performs well with small and large sample volumes, and permits simultaneous processing of a large number of samples. TRI Reagent® BD and the single-step method are subjects of the international patents. TRI Reagent® BD combines phenol and guanidine thiocyanate in a mono-phase solution to facilitate the immediate and most effective inhibition of RNase. A sample of blood is lysed in TRI Reagent® BD and the lysate is separated into the aqueous and organic phases by the bromochloropropane or chloroform addition and centrifugation. RNA remains exclusively in the aqueous phase, DNA in the interphase, and proteins remain in the organic phase. RNA is precipitated from the aqueous phase by isopropanol, washed with ethanol and solubilized. DNA and proteins are sequentially precipitated from the interphase and organic phase by ethanol and isopropanol, washed of remaining impurities and solubilized.

TRI Reagent® BD is designed for use with whole blood and plasma. Fifty milliliters is sufficient to process 65 samples of 0.25 ml each

TB126-50	TRI Reagent®BD	50 ml	85,00 € HT
TB126-100	TRI Reagent® BD	100 ml	155,00 € HT

Rapid Blood RNA Isolation Kit

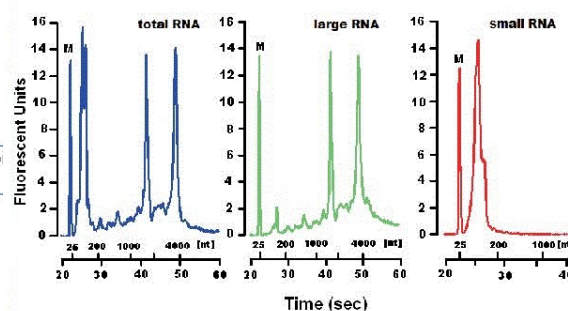
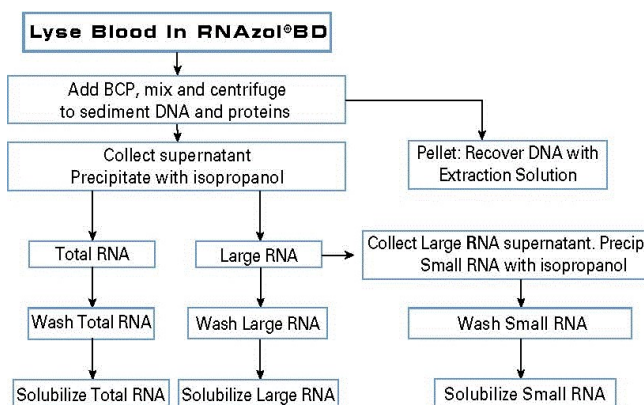
This kit is designed for preparation of high quality total RNA from any anticoagulated blood. 20µg total RNA can be purified from 1ml anticoagulated blood using this kit. Purified RNA is ready for most downstream applications such as RT-PCR, Northern Blot, Poly (A) purification, nuclease protection and *in vitro* translation.

BI-BT4182	Rapid Blood RNA Isolation Kit	10 Preps	49,00 € HT
BI-BT4183	Rapid Blood RNA Isolation Kit	50 Preps	161,00 € HT
BI-BT4184	Rapid Blood RNA Isolation Kit	250 Preps	630,00 € HT

RNAzol® BD

RNAzol® BD is the most effective reagent for isolation of total RNA from whole blood, plasma or serum of human or animal origin. This patented reagent employs an improved single-step method to provide the highest yield and purity of isolated RNA. RNAzol® BD isolates pure and undegraded RNA that is ready for RT-PCR without DNase treatment.

- RNAzol® RT isolates total RNA, or large RNA and small RNA in separate fractions. The large RNA fraction contains rRNA and mRNA. The small RNA fraction contains tRNA, small RNA and microRNA down to 10 bases.
- RNAzol® BD allows for the isolation of RNA and DNA from the same blood sample.
- The RNA isolation procedure can be completed in 1.5 hours and is performed at room temperature, including centrifugation steps.
- Typical yields provide 8 – 22 µg total RNA per 1ml of human blood.
- The isolated RNA is ready for RT-PCR, qRT-PCR, microarrays, poly A+ selection, northern blotting, RNase protection assay and other molecular biology applications.
- Due to the removal of impurities, the RNA pellets are smaller and solubilize more easily.
- RNAzol® BD is used to isolate RNA from whole blood, plasma or serum. One milliliter is sufficient to process 0.5 ml of whole blood.



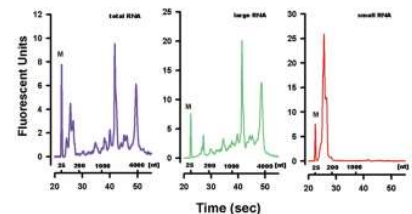
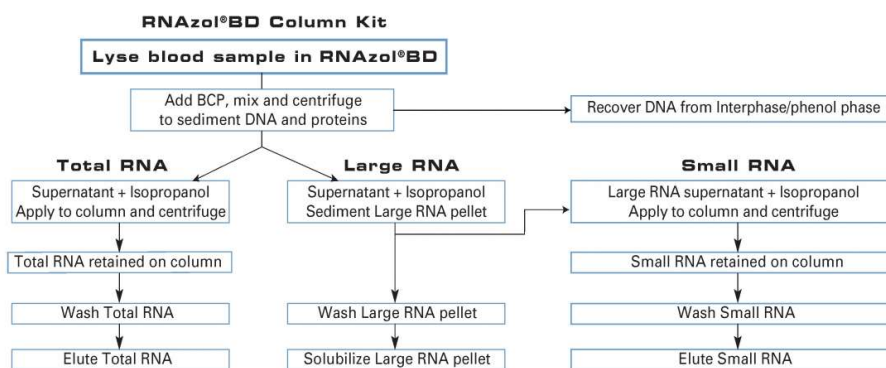
RB192-50ml	RNAzol® BD	50 ml	87,00 € HT
RB192-100ml	RNAzol® BD	100 ml	164,00 € HT
RB192-500ml	RNAzol® BD	500 ml	740,00 € HT
GT192	DNA Extraction Solution	50 ml	44,00 € HT

RNAzol® BD column kit

The RNAzol® BD Column Kit combines RNAzol® BD, with a versatile and universal column in one procedure. This Kit provides unsurpassed yields of either total RNA, large RNA (> 150 – 200 bases) or small RNA (< 150 – 200 bases) in separate fractions. RNAzol® BD has been used to determine that RNA averages 14 µg/ml of human whole blood and ranges from 6 – 22 µg/ml. These RNA levels are significantly higher than previously reported with other methods that average only 2 – 5 µg of total RNA per ml of human blood.

- This Kit allows for isolation of low RNA quantities without pellets and in about 60 minutes.
- The large RNA fraction includes long non-coding RNA, mRNA and rRNA.
- The small RNA fraction includes tRNA, small rRNA and microRNA down to 10 bases.
- The Kit allows for simultaneous isolation of RNA and DNA from the same sample.
- The pure and undegraded RNA is ready for RT-PCR without DNase treatment.
- RNAzol® BD Column Kit isolates pure and undegraded RNA from whole blood, plasma or serum of human or animal origin.
- Column capacity is 800 µl of solution and at least 300 µg of RNA.

Components	RC 292 (50 preps)
RNAzol® BD	50 ml
Columns with Collection Tubes	50
Wash Tubes	50
Elution Tubes	50
RNase-free Water	10 ml



RC292	RNAzol® BD Column Kit	50 preps	298,00 € HT
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EZ-10 Spin Column Blood RNA Miniprep Kit

EZ-10 Column Blood RNA Purification Kit provides a simple spin column technique for preparation of high quality, high-purity intact total RNA. The reagent contains disruptive and protective properties of guanidine isothiocyanate and β-mercaptoethanol to inactivate the ribonucleases present in cell extracts. RNA in the whole homogeneity is selectively absorbed on spin column and other impurities are washed away. Total RNA is eluted from the membrane in the presence of RNase-free water. 5-15 µg total RNA can be purified from 200 µl of anticoagulated blood sample using this kit. Purified RNA

is ready for most downstream applications such as RT-PCR, Northern Blotting, Poly(A) selection and in vitro translation.

Features

- Fast. Using a rapid spin-column format, the entire procedure takes approx 15 minutes.
- High Purity of RNA. OD260/OD280 ratio of purified RNA is generally > 1.9.
- Compatible with downstream applications such as Northern Blots, cDNA synthesis, RT-PCR and qRT-PCR.
- High Quality RNA. Buffer Rlysis-AG maintains the integrity of the RNA, no degradation.
- Economic.

BI-BS82313	EZ-10 Spin Column Blood RNA Miniprep Kit	50 Preps	83,00 € HT
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Plant

Rapid Plant RNA Isolation Kit

This kit is designed for preparation of high quality total RNA from a wide variety of plant species and tissues types. Plant tissue are lysed and homogenized by Buffer Rlysis-P. All contaminants, such as polysaccharide, are removed by centrifugation. Purified RNA is ready for most downstream applications such as RT-PCR, Northern Blotting, Poly (A) purification, nuclease protection and in vitro translation.

BI-PT4191	Rapid Plant RNA Isolation Kit	50 Preps	46,00 € HT
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EZ-10 Spin Column Plant RNA Miniprep Kit

Polysaccharides and polyphenols are components of plants. It is very difficult to remove after form insoluble compounds closely combining with RNA. EZ Spin Column Plant total RNA Purification Kit is applicable to all kinds of plant samples. RNA rapid extraction cracking liquid can effectively solve the difficult problem such as polyphenols easy oxidation, polysaccharide separation and nucleic acids compounds.

RNA Purification using spin column is easy to operate, avoid ethanol rinse. Purified RNA is ready for most downstream applications such as RT-PCR, Northern Blotting, Poly A+ purification, nuclease protection and in vitro translation.

Features

- Fast. Using a rapid spin-column format, the entire procedure takes approx 30 minutes.
- Versatile. Suitable for isolation of RNA from a wide range of specimens such as arabidopsis thaliana, tobacco, camphor and other samples.
- High Quality of RNA. Complete removal of contaminants such as genomic DNA, polysaccharides, polyphenols and other impurities.
- An OD260/OD280 ratio of purified RNA is generally > 1.9.

BI-BS82314	EZ-10 Spin Column Plant RNA Miniprep Kit	50 Preps	83,00 € HT
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Yeast

MasterPure™ Yeast RNA Purification Kit

Safe, fast purification of high quality RNA from multiple species of yeast

- Safe : Avoids the use of dangerous hot acid phenol
- Fast : Quicker protocol than methods using spheroplasting
- High Quality RNA : RNA quality exceeds that obtained by bead beating protocols and is ready for use in downstream applications such as RT-PCR and microarray analysis
- Excellent Yields : Yields 25-50 µg RNA from 1 ml of mid-log *S.cerevisiae*
- Complete : All the necessary reagents are supplied with no need to purchase extra equipment

Description

The MasterPure™ Yeast RNA Purification Kit provides all of the reagents needed to purify RNA from yeast cell types (including *Candida*, *Saccharomyces*, *Schizosaccharomyces*) and filamentous fungi. The kit uses a rapid salting-out process to remove contaminating macromolecules, avoiding toxic organic solvents, bead-beating, and spheroplasting.

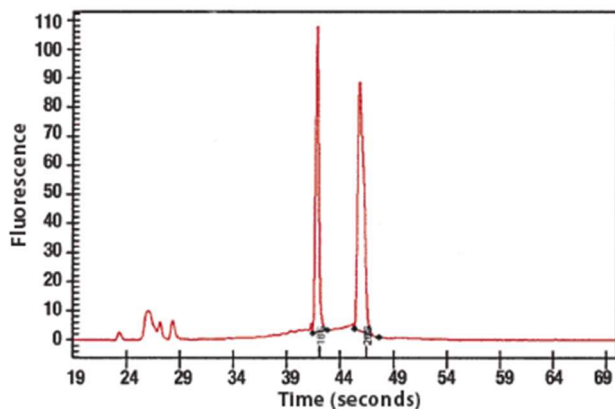


Figure : Purity of RNA obtained using the MasterPure™ Yeast RNA Purification Kit. The RNA was stored at -20° C for two months before analysis on an Agilent Technologies 2100 Bioanalyzer®. The electrophoretogram demonstrates the high-purity, intact RNA.

LU-MPY03100	MasterPure™ Yeast RNA Purification Kit	100 Preps	566,00 € HT
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Total Nucleic Acid Purification

All-In-One DNA/RNA Miniprep Kit (Cell, Tissue, Plant)

All-in-one DNA/RNA Mini-Preps Kit is designed for the simultaneous extraction of total RNA and genomic DNA from a single biological sample. DNA and RNA can be isolated from cultured eukaryotic cells, animal and plant tissues.

This kit, using an innovative buffer system, no need for phenol/chloroform extractions and provides column to separately purify genomic DNA from total RNA. Purified DNA is suitable for downstream applications such as restriction endonuclease digestions, PCR, and so on. Isolated RNA can be used for mRNA isolation, probe generation, RT-PCR, northern blot analysis, primer extension, RNA protection, *in-vitro* translation. The procedure is simple and fast. Genomic DNA and RNA can be isolated in less than 40 minutes.

Features

- Genomic DNA, RNA can be simultaneously isolated in less than 40 minutes.
- Preparation of high quality genomic DNA with a molecular weight > 20 kb.
- Preparation of high quality total RNA without genomic DNA.
- High yield and reproducibility.
- No phenol/chloroform extraction or ethanol precipitation required

BI-BS88203

All-In-One DNA/RNA Miniprep Kit 50 Preps

104,00 € HT

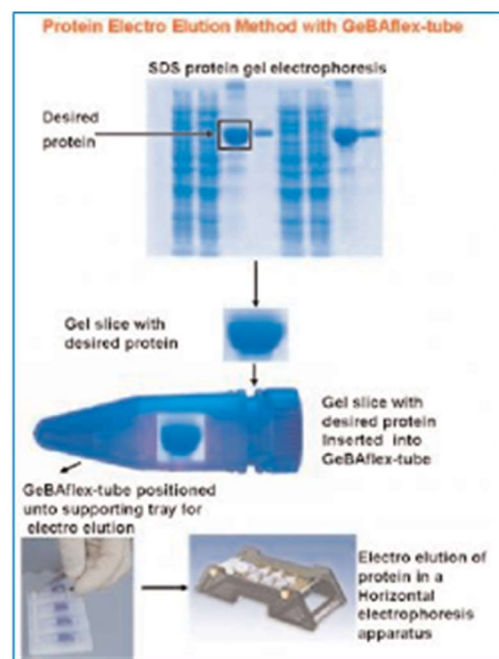
GeBAflex Kit

The Kit combines two high performance modes of action : electroelution of macromolecules from polyacrylamide or agarose gels and micro-dialysis.

Electroelution with GeBAflex-tube is the most secure, efficient and perfect way to extract from agarose or polyacrylamide gel, protein, RNA, DNA, oligo nucleic

-Single use, single & simple step,

Electroelution with GeBAflex-tube use standard electrophoresis agarose unit. GeBAflex-tube supporting tray special interface, also converts most agarose electrophoreses unit into electroelution unit. At the end of electroelution cycle, all the molecule contained inside the gel has now moved in the buffer solution, or stuck to the tube, inside the tube surface membrane. By reversing for 1 or 2 minutes the electrical current direction, the molecule is now unstuck. Removing the gel from the tube, you recover your molecule intact, with a standard pipette.



DNA RNA Oligo nucleotide Purification :

Extraction of small nucleic acid fragments as DNA Oligonucleotides (down to 15nt) and RNA molecules.

It can also be used to extract protein-nucleic acid complexes and large size DNA fragments (>100kb) from agarose or polyacrylamide gel. GeBAflex-tube is based on a single-use tube.



Note: GeBAflex-tube can also be used for protein extraction from polyacrylamide gel and for dialysis.

Mini GeBAflex-tube Vol. 10-250 µl

- Vol 10-250 µl.
- Max. gel slice size for electro elution: 0.4 x 1.0 cm
- Mini support plate : High x width between electrodes = 45 x 75mm, minimum depth 14mm
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Catalog No	Product	MWCO	Price
GE-D070-6-10	GeBAflex-tube kit (10) Mini, full kit.	6000-8000 cut-off	62,00 € HT
GE-D070-6-30	GeBAflex-tube kit (30) Mini, full kit.	6000-8000 cut-off	120,00 € HT
GE-D070-6-50	GeBAflex-tube kit (50) Mini, full kit.	6000-8000 cut-off	175,00 € HT
GE-D070-6-100	GeBAflex-tube kit (100) Mini, full kit.	6000-8000 cut-off	298,00 € HT
GE-D070-12-10	GeBAflex-tube kit (10) Mini, full kit.	12000-14000 Cut Off	62,00 € HT
GE-D070-12-30	GeBAflex-tube kit (30) Mini, full kit.	12000-14000 Cut Off	120,00 € HT
GE-D070-12-50	GeBAflex-tube kit (50) Mini, full kit.	12000-14000 Cut Off	175,00 € HT
GE-D070-12-100	GeBAflex-tube kit (100) Mini, full kit.	12000-14000 Cut Off	298,00 € HT

Midi GeBAflex-tube Vol. 50-800µl

- Vol 50-800 µl.
- Max. gel slice size for electro elution: 0.5 x 1.1 cm
- Midi support plate for 4 midi GeBAflex-tube : High x width between electrodes = 67 x 111mm, minimum depth 24mm

Catalog No	Product	MWCO	Price
GE-D010	GeBAflex-tube kit (10), full kit Midi.	3500 Cut Off	76,00 € HT
GE-D010-100	GeBAflex-tube kit (100), full kit Midi	3500 Cut Off	418,00 € HT
GE-D012	GeBAflex-tube kit (30), full kit Midi	3500 Cut Off	156,00 € HT
GE-D010-50	GeBAflex-tube kit (50), full kit Midi	3500 Cut Off	235,00 € HT
GE-D020	GeBAflex-tube kit (10), full kit Midi.	6000-8000 Cut-Off	76,00 € HT
GE-D020-100	GeBAflex-tube kit (100), full kit Midi	6000-8000 Cut-Off	418,00 € HT
GE-D021	GeBAflex-tube kit (15), full kit Midi	6000-8000 Cut-Off	105,00 € HT
GE-D024	GeBAflex-tube kit (20), full kit Midi.	6000-8000 Cut-Off	111,00 € HT
GE-D022	GeBAflex-tube kit (30), full kit Midi	6000-8000 Cut-Off	156,00 € HT
GE-D020-50	GeBAflex-tube kit (50), full kit Midi	6000-8000 Cut-Off	235,00 € HT

Maxi GeBAflex-tube

- Vol 100-3000 µl
- Max. gel slice size for electro elution : 1x2 cm
- Maxi support plate for 3 maxi GeBAflex-tube : High x Width between electrodes = 92 x 113 mm, minimum depth 28mm

Catalog No	Product	MWCO	Price
GE-D030	GeBAflex-tube kit (5) Maxi, No buffers.	3500 Cut Off	60,00 € HT
GE-D030-30	GeBAflex-tube kit (30) Maxi No buffers.	3500 Cut Off	227,00 € HT
GE-D030-50	GeBAflex-tube kit (50) Maxi No buffers.	3500 Cut Off	358,00 € HT
GE-D030-100	GeBAflex-tube kit (100) Maxi No buffers.	3500 Cut Off	664,00 € HT
GE-D035	GeBAflex-tube kit (15) Maxi No buffers.	3500 Cut Off	118,00 € HT
GE-D040	GeBAflex-tube kit (5) Maxi, No buffers.	6000-8000 Cut-Off	60,00 € HT
GE-D040-30	GeBAflex-tube kit (30) Maxi, No buffers.	6000-8000 Cut-Off	227,00 € HT
GE-D040-50	GeBAflex-tube kit (50) Maxi, No buffers.	6000-8000 Cut-Off	358,00 € HT
GE-D040-100	GeBAflex-tube kit (100) Maxi, No buffers.	6000-8000 Cut-Off	664,00 € HT
GE-D045	GeBAflex-tube kit (15) Maxi, No buffers.	6000-8000 Cut-Off	118,00 € HT
GE-D050	GeBAflex-tube kit (5) Maxi, No buffers.	12000-14000 Cut Off	60,00 € HT
GE-D050-30	GeBAflex-tube kit (30) Maxi, No buffers.	12000-14000 Cut Off	227,00 € HT
GE-D050-50	GeBAflex-tube kit (50) Maxi, No buffers.	12000-14000 Cut Off	358,00 € HT
GE-D050-100	GeBAflex-tube kit (100) Maxi, No buffers.	12000-14000 Cut Off	664,00 € HT
GE-D055	GeBAflex-tube kit (15) Maxi, No buffers.	12000-14000 Cut Off	118,00 € HT

Supporting tray

Catalog No	Product	Description	Price
GE-T001	supporting tray (1 unit) Midi	supporting tray for 1-4 Midi GeBAflex-tube(s), 1 unit	16,00 € HT
GE-T005	supporting tray (1 unit) Mini.	supporting tray for 1-4 Mini GeBAflex-tube(s), 1 unit	13,00 € HT
GE-T007	supporting tray (1 unit) Maxi.	supporting tray for 1-3 Maxi geBAflex-tube(s), 1 unit	20,00 € HT

MAGSI-NA Pathogens

Fast and Cost-effective Extraction of total nucleic acids for pathogen detection

Total nucleic acid extraction for pathogen detection

The MagSi-NA Pathogens kit allows cost-effective extraction of DNA and RNA from a variety of sample materials like serum, plasma, oropharyngeal swab / nasopharyngeal swab, or any other respiratory samples. Purified total nucleic acids can be used for qPCR based or any other enzymatic pathogen detection method. The ready-to-use reagents and simple protocol are convenient in use and easy to automate. The included MagSi-PA VII magnetic beads are optimized for fast separation even from viscous sample lysates.

Features

- Short protocols, complete processing at room temperature possible
- Consistently high yield of total nucleic acids
- Very strong magnetic beads enable fast magnetic separation even from viscous sample lysates

- Suitable for many enzymatic down-stream applications including qPCR, qRT-PCR isothermal amplification
- Preparation time for 96 samples: <30 min Easy to automate

MA-MDKT00210096	MagSi-NA Pathogens	96 preps	276,00 € HT
MA-MDKT00210960	MagSi-NA Pathogens	10 x 96 preps	2195,00 € HT

MasterPure™ Complete DNA and RNA Purification Kit

Quickly purify high yields of high-molecular-weight genomic DNA, total cellular RNA or Total Nucleic Acid (TNA) with one kit

- Fast : Purify Total Nucleic Acid (TNA), DNA or RNA in 30 – 60 minutes
- Safe : Does not use hazardous phenol, chloroform or guanidine
- High Purity : A260/A280 ratios consistently between 1.8 and 2.0
- High Yields : Improves yields by avoiding the use of columns which often reduce nucleic acid yields
- Versatile : Purify TNA, genomic DNA, total RNA, FFPE RNA, or both genomic DNA and total RNA from a sample
- Total RNA Recovery : Purify both large and small (e.g., miRNA) RNA for RNA-Seq or qRT-PCR
- Proven : Hundreds of citations for purification of DNA and RNA from dozens of sample types for use in many applications

Description

The MasterPure™ Complete DNA and RNA Purification Kit enables rapid, high yield purification of high-molecular-weight genomic DNA, total cellular RNA and Total Nucleic Acid (TNA) from many different sample types.

The kit procedure uses a safe, gentle, and scalable salt-precipitation protocol that eliminates the need for hazardous chemicals and yield-reducing columns. Purification reactions can be scaled up or scaled down depending on the amount of nucleic acid needed and the size of the sample.

MasterPure Kits for Nucleic Acid purifications Gram-positive bacteria, yeast DNA and blood samples are also available.

Applications

Purification of genomic DNA or total RNA for many applications, including:

- Library preparation for next generation sequencing (NGS) of genomic DNA and RNA
- DNA methylation studies using Illumina® Infinium® HumanMethylation BeadChips
- Genomic DNA and cDNA cloning
- qPCR and qRT-PCR
- Microarray analyses (CGH, gene expression profiling, etc)

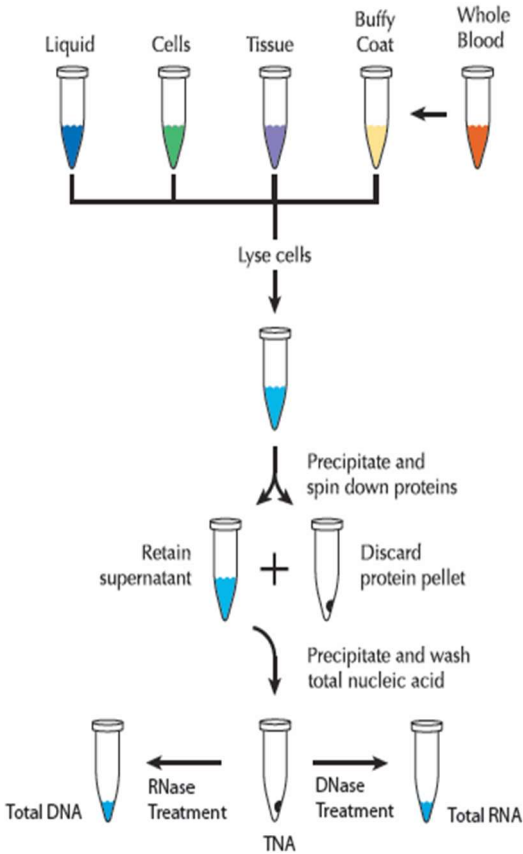


Figure : Overview of the MasterPure™ Complete kit protocol

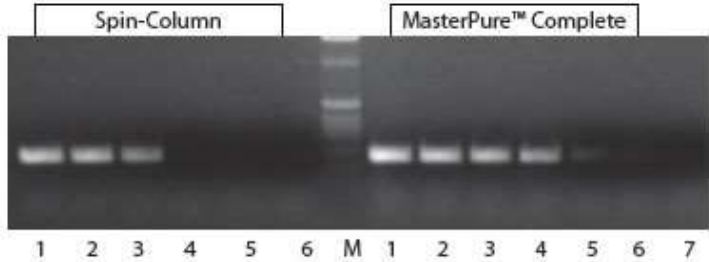
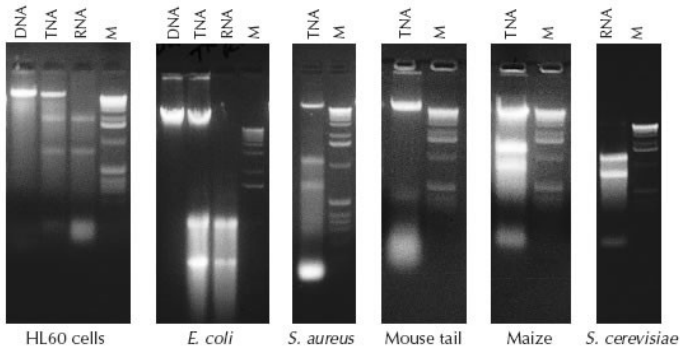


Figure : Comparison of PCR sensitivity using templates obtained using the MasterPure™ Complete DNA and RNA Purification Kit versus a spin-column kit. PCR amplification was performed after extraction from serial dilutions of *E. coli* cells ranging from 2×10^7 (lanes 1) to 200 (lanes 6). Lane M, DNA



marker, lane 7, negative control.

Figure : DNA, RNA, and total nucleic acid (TNA) purified from diverse cell sources using the MasterPure™ Complete Kit. M = kb ladder.

LU-MC85200	MasterPure Complete DNA & RNA Purification Kit, 200 Purif	EACH	673,00 € HT
LU-MC89010	MasterPure Complete DNA & RNA Purification Kit, 10 Purif	EACH	139,00 € HT

Total Nucleic Acid & Protein Purification

TRI Reagent

TRI Reagent® is a complete and ready-to-use reagent for the isolation of total RNA or the simultaneous isolation of RNA, DNA and proteins from samples of human, animal, plant, yeast, bacterial and viral origin. TRI Reagent® is the improved version of the popular single-step method of total RNA isolation. This highly reliable technique performs well with small and large quantities of tissues or cultured cells, and allows simultaneous processing of a large number of samples. TRI Reagent® and the single-step method are subjects of the international patents.

TRI Reagent® combines phenol and guanidine thiocyanate in a mono-phase solution to facilitate the immediate and most effective inhibition of RNase activity. A biological sample is homogenized or lysed in TRI Reagent® and the homogenate is separated into aqueous and organic phases by bromochloropropane or chloroform addition and centrifugation. RNA remains exclusively in the aqueous phase, DNA in the interphase, and proteins in the organic phase. RNA is precipitated from the aqueous phase by addition of isopropanol, washed with ethanol and solubilized. DNA and proteins are sequentially precipitated from the interphase and organic phase with ethanol and isopropanol, washed with ethanol and solubilized.

TR118-50	TRI Reagent®	50 ml	78,00 € HT
TR118-100	TRI Reagent®	100 ml	142,00 € HT
TR118-200	TRI Reagent®	2 X 100 ml	255,00 € HT

TRI Reagent® RT

TRI Reagent® RT is an upgraded version of the single-step method of RNA isolation. TRI Reagent® RT is based on the phase separation method using phenol and guanidine thiocyanate. This patent-pending reagent substantially improves the quality of isolated RNA. Unlike the previous single-step methods, TRI Reagent® RT isolated RNA that is free of DNA contamination. The purity of RNA was tested by a 35-cycle PCR. Thus, no DNase treatment is necessary to use the isolated RNA in RT-PCR. Also, the isolated RNA solubilizes more quickly and easily as compared with the older single-step methods.

TRI Reagent® RT provides a reliable, cost-effective and efficient method of RNA isolation. It is a comprehensive reagent available for analysis of gene expression. TRI Reagent® RT isolates RNA from a wide variety of samples of human, animal, plant, yeast, bacterial and viral origin. TRI Reagent® RT also can be used to simultaneously isolate RNA, DNA and proteins from the same sample. The RNA isolation is completed in less than 1 hour. In addition to total RNA, TRI Reagent® RT can be used to isolate high and low molecular weight RNA as separate fractions.

TRI Reagent® RT is used for RNA isolation from tissues, pelleted cells and cells grown in monolayer. Fifty milliliters is sufficient to process 50 samples, each containing 50 mg of tissue. Expected yields range from 50 – 700 µg of RNA per sample, depending upon the tissue source.

BAN is molecular biology grade 4-bromoanisole for phase separation in the TRI Reagent® RT and RNazol RT® procedures.

RT111-50	TRI Reagent®RT	50 ml	96,00 € HT
RT111-100	TRI Reagent®RT	100 ml	175,00 € HT
RT111-200	TRI Reagent®RT	2 X 100 ml	330,00 € HT
BN191	BAN	100 ml	49,00 € HT

TRI Reagent®-Liquid Sample

TRI Reagent® LS is a complete and ready to use reagent for the isolation of total RNA or the simultaneous isolation of RNA, DNA and proteins from liquid samples of human, animal, plant, yeast, bacterial and viral origin. TRI Reagent® LS is the improved version of the popular single-step method of total RNA isolation. This highly reliable technique performs well with small and large sample volumes, and allows simultaneous processing of a large number of samples. TRI Reagent® LS and the single-step method are subjects of the international patents. TRI Reagent® LS combines phenol and guanidine thiocyanate in a mono-phase solution to facilitate the immediate and most effective inhibition of RNase activity. A biological sample is homogenized or lysed in TRI Reagent® LS and the lysate is separated into aqueous and organic phases by bromochloropropane or chloroform addition and centrifugation. RNA remains exclusively in the aqueous phase, DNA in the interphase, and proteins in the organic phase. RNA is precipitated from the aqueous phase by the addition of isopropanol, and the RNA pellet is washed with ethanol and solubilized. DNA and proteins are sequentially precipitated from the interphase and organic phase with ethanol and isopropanol, washed with ethanol and solubilized.

TRI Reagent® LS is used for cell suspensions and other liquid samples. Fifty milliliters is sufficient to process 65 samples of 0.25 ml each.

TS120-50	TRI Reagent®LS	50 ml	85,00 € HT
TS120-100	TRI Reagent®LS	100 ml	155,00 € HT
TS120-200	TRI Reagent®LS	2 X 100 ml	290,00 € HT

All-In-One DNA/RNA/Protein Miniprep Kit (Cell, Tissue, Plant)

All-in-one DNA/RNA/Protein Mini-Preps Kit is designed for the simultaneous extraction of total RNA, genomic DNA, and protein from a single biological sample. DNA, RNA, and protein are isolated without splitting the sample prior to extraction. DNA, RNA, and protein can be isolated from cultured eukaryotic cells, animal and plant tissues.

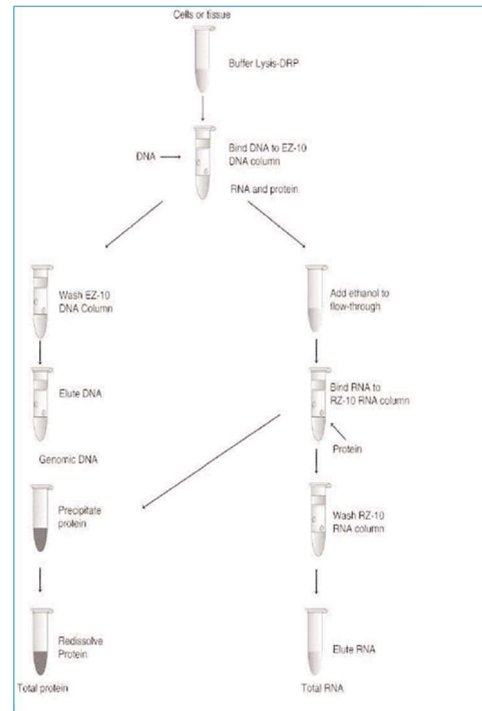
This kit provides an innovative buffer system and a silica-cased column nucleic acid purification technology to separate pure genomic DNA from and total TNA. There is no need for phenol/chloroform extraction. Purified DNA is suitable for downstream applications such as Restriction Endonuclease Digestion, PCR and other applications. Isolated total RNA can be used for mRNA isolation, probe generation, RT-PCR, Northern blot analysis, primer extension, RNA protection assay and in vitro translation.

Protein is purified in the denatured form with a special buffer(PP Solution) which effectively precipitates protein. After the washing step, the protein pellet is dissolved in PD Solution. The

isolated protein is suitable for SDS-PAGE, Western Blot analysis, and quantification. The procedure is simple and fast. Genomic DNA, total RNA, and Protein can be isolated in less than 1 hour.

Features

- Genomic DNA, RNA and Proteins can be simultaneously isolated in less than 1 hour.
- Preparation of high quality genomic DNA with a molecular weight > 20 kb.
- Preparation of high quality total RNA without genomic DNA.
- Isolated protein is suitable for SDS-PAGE and Western Blot analysis.
- High yield and reproducibility.
- No phenol/chloroform extraction or ethanol precipitation required



BI-BS88003

All-In-One DNA/RNA/Protein Miniprep Kit

50 Preps

114,00 € HT

Miscellaneous

Accessories

Ref	Description	Size	Price
BI-SD5005	EZ-10 Column & collection tube (blue tube, clear ring, clear collection)	100	49,00 € HT
BI-SD5006	96 well filter plate (960 µl each well)	12	73,00 € HT
BI-SD5007	96 well DNA plate with membrane (960 µl each well)	12	458,00 € HT
BI-SD5008	EZ-10 RNA Columns & Collection Tubes	100	49,00 € HT
BI-SD5009	96 well RNA plate with membrane (960 µl each well)	12	529,00 € HT
BI-SD5010	96-Well 200ul U-Shaped Deep-Well Plates, Sterile,10Plate/Bag	1PK	52,00 € HT

BCP-Phase separation reagent

Phase Separation Reagent is molecular biology grade 1-bromo-3-chloropropane (BCP). It replaces chloroform, the highly volatile compound commonly used for phase separation in the single-step method of total RNA isolation and in the TRI Reagent® method. Substituting BCP for chloroform moderately improves the quantity and quality of the isolated RNA

BP151	BCP-Phase separation reagent	200 ml	53,00 € HT
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Di-Ethyl Pyro Carbonate (DEPC)

$C_6H_{10}O_5$ MW : 162,14 CAS : [1609-47-8]

Purity >97% Density : 1.12 g/ml

K028-A	10 ml	33,00 € HT
K028-B	25 ml	67,00 € HT
K028	100 ml	230,00 € HT

DEPC is a strong nuclease inhibitor utilizing a mechanism which modifies His and Tyr residues in proteins.

Signal word : Warning GHS07 / H302-H315-H319-H335 / P261-P305 + P351 + P338

DNase I

Source : Bovine Pancreas CAS : [9003-98-9]

Solution 1 U/µl

RNase free

Supplied with 10 X reaction buffer with MgCl₂ and 25 mM EDTA

BI-DD0649-50KU	50 KU	988,00 € HT
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Powder

- Preparative grade
- Min. 3000 U/mg
- Low RNase and low protease

1307	20 000 U	28,00 € HT
1307-B	100 000 U	119,00 € HT

Exonuclease I

DNA Polymerase I (E.coli) is a DNA-dependent DNA polymerase with inherent 3' → 5' and 5' → 3' exonuclease activities. The 5' → 3' exonuclease activity removes nucleotides ahead of the growing DNA chain, allowing nick-translation.

It is applicable to nick translation of DNA for obtaining probe with a high specific activity and for second strand synthesis of cDNA

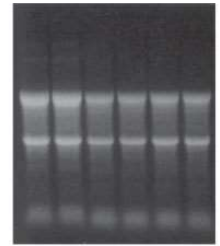
Source : An E.coli strain that carries an overexpressed copy of the polA gene

AL-RK20531 - 1500 U	Exonuclease I, E. coli	1500 U	44,00 € HT
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FORMAZOL®

FORMAZOL® is molecular biology grade formamide that remains stable for one year when stored at 4 C or for two years when stored at -20 C. This stabilized formamide serves as an excellent RNA solubilizer and has been shown to have several advantages over water as an RNA solubilization agent. RNA solubilized in FORMAZOL is protected from degradation by RNase and can be stored at -20 C instead of -70 C. Solubilization of RNA in formamide facilitates the application of RNA to a formaldehyde-agarose gel in northern analysis.

FO121	FORMAZOL (stabilized formamide)	25 ml	76,00 € HT
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Total RNA (3µg/lane) remains intact after extended storage in FORMAZOL at -20 C for eight years (lanes 1-2), three years (lanes 3-4) and one month (lanes 5-6). RNA was isolated from MCF7 cells, rat testes and rat kidney, respectively.

Magnetic separators

Manual Separators

Manual Separators are offered in chemically resistant polyoxymethylene (POM) for routine use of organic solvents. The neodymium (NdFeB, NIB, or Neo) magnets used for these separators are optimized to enable fast separation at minimum collection time.

Manual Separators come in 12 + 12 (1.5/2.0 ml) tubes format, or as 96 well microtiterplate option. With the strip adapter one can also process in PCR tube strips.

MM-Separator M12

Manual, robust magnetic separation in microtubes



The MM-Separator M12 + 12 P (POM = polyoxymethylene) is designed for manual use with various 1.5 and 2 ml microtubes. MM-Separator M12 + 12 P enables easy separation of beads from liquids for processing low amounts of samples with working volumes from 10 µl to 2

ml. In the centre, 12 magnets allow accommodation of up to 24 centrifuge tubes. The separator is designed to hold 2 ml microtubes in a stable upright position, and 1.5 ml tubes in a slightly tilted position for fast separation and easy handling in small-to-medium volumes. After liquids are pipetted off, microcentrifuge tubes can be conveniently placed on the outer positions for resuspending beads and further processing.

MagSi and MagSiMUS beads typically collect from a solution to the side of a centrifuge tube between 10 seconds and 3 minutes (depending on the type of beads and application). Separation of MagSi-DNA beads is completed within 10 seconds.

MA-MDMG0001	MM-Separator M12 + 12 P	1/Pack	287,00 € HT
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MM-Separator M96 P

Manual, robust magnetic separation in microtiterplates



MM-Separator M96 P consists of a chemically resistant POM (polyoxymethylene) block, and is designed for manual use with 96 well microtiterplates and PCR plates. MM-Separator M96 P enables easy separation of beads from liquids for multiple sample processing with 8- or

12-channel pipettes. The separator holds 24 (6 x 4) extra strong permanent magnets that are placed for magnetic separation of beads in 96 wells. MM-Separator M96 allows magnetic particles to be pulled to the side of wells for optimal access to the bottom and easy supernatant removal. The separator is suitable for U- and V-bottom shaped 96 well microplates and for most PCR plates, skirted or semi- and non-skirted.

In order to use it with 8 or 12-tube PCR strips, combine the POM version with MM-Separator PCR strip adapter P (MA-MDMG0003).

Dimensions : 12.8 cm x 8.6 cm x 2.8 cm

MA-MDMG0002	MM-Separator M96 P	287,00 € HT
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Adjust your MM-Separator M96 P for use with 8- and 12-tube strips



This product is designed for manual use with 8- and 12-tube PCR strips and is complementary to MM-Separator M96 P (MA-MDMG0002).

The adapter can be placed on the MM-Separator M96 P and is suitable for users with smaller sample throughputs, preferring the use of PCR tube strips over PCR plates. When combined, the MM-Separator M96 P and the MM-Separator PCR Strip Adapter P enable the use of a broad range of consumables for a fast and easy solution. The resulting separators are suitable for use with U- or V-shaped 96 well microplates and for 96- well PCR plates in various formats, and 8- and 12-tube PCR strips. MagSi beads typically collect from a solution within 1-2 minutes, after which liquids are pipetting off easily with a single, 8- or 12-channel multi-pipette.

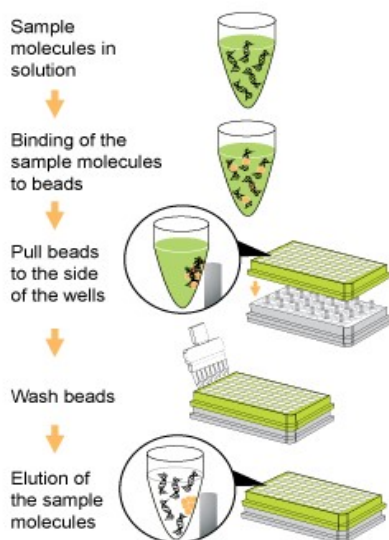
MA-MDMG0003	MM-Separator PCR strip adapter P	176,00 € HT
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EpiMag™ HT (96-Well) Magnetic Separator



The EpiMag HT (96-Well) Magnetic Separator is a magnetic stand (magnetic rack) that allows paramagnetic bead precipitation of liquid samples from various flat-bottom or U-bottom 96-well microplates (we recommend our EpiMag 96-Well Microplates for ideal compatibility). It can be used for isolation and purification of nucleic acids and proteins, immunoprecipitation, immunoassays (ELISA), cell sorting, and purification of biomolecules. This magnetic separation device has the following features and advantages:

Ultra-Powerful NdFeB Magnets - High-grade neodymium iron boron rods allow for extremely fast separation times and minimal bead loss.

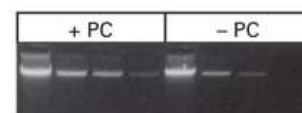


- Efficient Particle Washing - Vertical orientation of the magnetic field attracts and suspends magnetic particles to both the side as well as upwards from the bottom of the wells. Pipette tips can be inserted to the bottom of the well, ensuring thorough and efficient washing and removal of fluids.
- Maximum Sample Concentration - Samples can be efficiently recovered from 10 µl to 2 ml of liquid.
- Flexible Compatibility - Suitable for most magnetic beads or particles including magnetic iron oxide nanoparticles and magnetic agarose beads (e.g., EpiNext beads, AMPure XP, Axygen, etc). Compatible with all microtiter plates, including standard 96-well plates (0.25 to 0.3 ml wells) and deep well plates (1 to 2 ml) with U-bottom and flat-bottom well shapes.
- Lightweight Handheld Design - Allows for easy repeated handling.

EP-Q10002-1	EpiMag HT (96-Well) Magnetic Separator	1/Pack	330,00 € HT
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Polyacryl Carrier

Polyacryl Carrier is a molecular biology grade solution of acryl polymer designed for use in the isolation of small amounts of RNA or DNA. Biological solutions or solutions containing nucleic acids are supplemented with 2-8 μ l of Polyacryl Carrier and isolation procedures are performed according to protocol. The carrier does not affect the activity of restrictases, reverse transcriptase, Taq polymerase, DNA polymerase, ligase or other enzymes used for nucleic acid analysis.



Polyacryl Carrier increases the recovery of small amounts of DNA. Bacterial DNA (500, 100, 50 and 10 ng) was precipitated with (lanes 1-4) and without (lanes 5-8) Polyacryl Carrier.

PC152	Polyacryl Carrier	5 ml	85,00 € HT
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Precipitation Carrier

This molecular biology grade Carrier is specially designed for use with RNAzol® RT, which removes all other contaminants and carriers during the RNA isolation procedure. Use 2-4 μ l of Carrier when sedimenting minute quantities of either small or large RNA, which are isolated as two separate fractions with RNAzol® RT.

PC173	Precipitation Carrier	5 ml	85,00 € HT
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Ribonuclease A

Purified from bovine pancreas. The enzyme is an endoribonuclease that specifically attacks single-stranded RNA at C and U residues. Ribonuclease A catalyzes cleavage of the phosphodiester bond between the 5'-ribose of a nucleotide and the phosphate group attached to the 3'-ribose of an adjacent pyrimidine nucleotide. The resulting 2',3'-cyclic phosphate may be hydrolyzed to the corresponding 3'-nucleoside phosphate

- MW : 17000 Daltons
- DNase and protease not detectable Associated activity
- Purity > 70% Ribonuclease A by ion exchange chromatography
- Solubility : Dissolves readily at 2 mg/ml in analytical grade water to give a clear colorless solution

9707-A	Powder	25 mg	19,00 € HT
9707-B	Powder	100 mg	30,00 € HT
9707-C	Powder	500 mg	119,00 € HT
9707	Powder	1 g	209,00 € HT

RNase & DNase Away™

BI-DB0339-200ML	200 ml	36,00 € HT
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Biotech Grade

Efficiently remove surface-contaminant from glasswares and plasticwares without having a residual effect on subsequent DNA & RNA samples. The product provides more effective at degradading DNA than autoclave. RNase AWAY was proven to be ideal for cleaning pipettor barrels, gel boxes, benchtops and labware that cannot be autoclaved

Shrimp Alkaline Phosphatase (SAP)

Recombinant Shrimp Alkaline Phosphatase is a multipurpose alkaline phosphatase that can be fully inactivated by a short heat treatment. This property simplifies most workflows involving alkaline phosphatase treatment. The recombinant form of SAP replaces the native form that has been established on the market for several years. rSAP has all the properties of the well proven SAP, but with additional benefits. rSAP is far more stable at ambient temperature, it is of high, consistent purity, and is available in large batches at high concentration.

- Heat-labile, all-purpose alkaline phosphatase
- Fast and easy dephosphorylation of DNA, RNA and nucleotides
- Active in most restriction enzyme buffers, no need for extra addition of buffer or ions
- Excellent stability at 4°C and even room temperature

JE-EN-174S	Shrimp Alkaline Phosphatae	400 U	113,00 € HT
JE-EN-174L	Shrimp Alkaline Phosphatae	5 X 400 U	452,00 € HT

Water, DEPC treated

H₂O M.W.: 18.02 CAS :[7735-18-5]

BI-D0121-500ML	500 ml	26,00 € HT
BI-D0121-4X500ML	4x500 ml	67,00 € HT

DEPC-treated Water is deionized, high quality, molecular biology grade water.

No detectable RNase and DNase activity, tested in a transcription reaction. (molecular biology grade)

Water, Sterile, Nuclease free