















**FEAL**











# MOLECULAR BIOLOGY GUIDE





NUCLEIC ACID PURIFICATION    SAMPLE COLLECTION & STABILIZATION  
PURIFICATION OF CIRCULATING DNA/RNA    ELECTROPHORESIS REAGENTS

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	Product	Sample	Applications	References	
Collection and preservation	REAL Saliva DNA Sample Collection Kit	SALIVA	Painless, non invasive collection. Stabilizes the DNA for one year at room temperature and at -20°C or -80°C indefinitely. Suitable for NGS applications.	RBMSAL100/500/1000CE	
	REAL Saliva Microbiome Sample Collection Kit		Integrated system for collection, transport and storage of saliva samples for subsequent DNA purification. Stabilizes microbial DNA at room temperature for at least 1 year. Suitable for NGS applications.	RBMSALMC100/500/1000CE	
	REAL Saliva RNA Sample Collection Kit		Integrated system for collection, transport and storage of saliva samples for subsequent RNA purification. Stabilizes RNA at room temperature for at least 1 month. Suitable for NGS applications.	RBMSALRNA100/500/1000CE	
	REAL Swabs Sample Collection Kit		Safe and rapid all in one procedure for the collection, stabilization and transport of saliva swab samples at room temperature. Swab is introduced into a microtube containing a preservation solution, thus the buccal cells can be transported and stabilized for 1 year at room temperature and indefinitely at -20°C or -80°C.	RBMEG08/09/10/11CE	
	REAL Stool Sample Collection Microbiome Kit	STOOL	An integrated system for collection, transport and storage of stool samples for subsequent DNA purification. Helps to dissolve the stool and stabilizes the microbial DNA for several months at room temperature and at -20°C or -80°C indefinitely. Suitable for NGS applications.	RBMSC50/250CE	
Microbiome	REAL Microbiome Stool DNA Kit	STOOL	Fast and efficient purification of microbial DNA for microbiome analysis from stool preserved in REAL Stool Sample Collection Microbiome kit. DNA suitable for microbiome analysis, PCR applications, RFLP analysis, pathogen typing, mutation analysis.	RBMEGS21-22	
	REAL Microbiome Fecal DNA Kit		Fast and efficient purification of microbial DNA for microbiome analysis from fresh and frozen human animal stool samples or preserved . DNA suitable for microbiome analysis, PCR applications, RFLP analysis, pathogen typing, mutation analysis.	RBMEGS16	
	REAL Microbiome Soil DNA Kit	SOIL	Fast and efficient purification of microbial DNA for microbiome analysis from environmental samples like soil. DNA suitable for microbiome analysis, PCR applications, RFLP analysis, pathogen typing, mutation analysis.	RBMEGS18	
	REAL Microbial DNA Kit	MICROBIAL CULTURE	Fast and efficient purification of microbial DNA for microbiome analysis from microorganisms. Total DNA from microbial cultures, typical downstream applications: PCR, real time PCR, southern blotting, enzymatic reactions.	RBMEGS17	
	REAL Microbiome Saliva DNA Kit	SALIVA	Fast and efficient purification of microbial DNA for microbiome analysis from bucal samples. DNA suitable for microbiome analysis, PCR applications, RFLP analysis, pathogen typing, mutation analysis.	RBMEGS19	
	REAL Microbiome Vaginal DNA Kit	VAGINAL	SELF-COLLECTION SWAB and kit for a fast and efficient purification of microbial DNA for microbiome analysis from vaginal samples. DNA suitable for microbiome analysis, HPV, RFLP analysis, pathogen typing, mutation analysis, PCR applications.	RBMEGS20	
	16S rRNA V3-V4 Microbiome-Seq Kit	Extracted DNA	Library preparation kit designed to prepare multiplexed amplicon libraries that span the V3 - V4 hypervariable domain of microbial 16S rRNA gene for microbiome studies.	16Rv34-XX	
RNA	REALSpin Viral RNA Kit	CELL-FREE SAMPLES (serum, plasma and cerebrospinal fluid)	Viral RNA from cell-free samples using microSpin columns. Viral RNA can be used directly as template for standard PCR or RT-PCR.	RBMER19	
	REAL Plant RNA Kit	PLANTS AND FUNGI	DNA-free total RNA from different cells and tissues of plants and fungi samples. High quality RNA in 30 minutes from cells and tissue samples. RNA from filamentous fungi. Downstream applications: RT-PCR, gene expression profiling, Northern Blotting, primer extension, array technology, RNase protection assays.	RBMER22/23	
	REAL Bacteria RNA Kit	GRAM - / + BACTERIA	Fast and easy method for an efficient total RNA purification from bacteria. Safe method, NON-TOXIC reagents are used	RBMER26/27	
	REAL Saliva RNA Kit	SALIVA	Fast and efficient purification of total RNA from preserved saliva samples. Buffer based RNA isolation combined with gDNA removal with columns. RNA is isolated without the use of harmful chemicals such as phenol or chloroform.	RBMER35	
	REAL Tissue/Cells RNA Kit	TISSUES AND CELLS	Total RNA from tissues and cells using microspin columns. Integrates a gDNA removal. RNA ready for downstream applications such as RT-PCR, Northern Blotting, Primer extension, mRNA selection, cDNA synthesis, RNase protection Elution assay.	RBMER20/21	
	REAL microRNA kit		Spin column system for purifying and enriching miRNAs and other cellular RNAs minimizing genomic DNA contamination. miRNA ready for RT-PCR, Northern Blotting, microarrays analysis, chip hybridization.	RBMER28	
	REAL DNA/RNA Purification kit		Extraction of high quality genomic DNA and total RNA simultaneously. For small and precious samples, no sample splitting for different isolations is necessary.	RBMER16	
	REAL DNA Removal Kit	RNA Preparations	Removal of genomic DNA contamination in RNA preparations using two sequential filtrations with MicroSpin columns. Purified RNA can be used in RT-PCR, Reverse Transcription PCR, Northern Blotting, RNase protection and primer extension and expression array assays.	RBMER29	

	Product	Sample	Applications	References
Genomic DNA	REALBlood DNA Kit	BLOOD	DNA extraction from fresh or frozen blood collected in tubes containing EDTA, citrate or heparine. Reproducible, fast and non expensive method. No use of toxic reagents. DNA obtained can be used for PCR and qPCR, SNP analysis, sequencing.	RBME05/06
	REAL Spin Blood DNA Kit		Purification of genomic DNA from whole blood, serum, plasma, body fluids and dried blood spots using microspin columns. Sample size: 300ul; no organic extraction or alcoholic precipitation.	RBMEGS08/09 
	REAL Genomic DNA Tissue Kit	TISSUES	Purification of genomic DNA from tissues. Reproducible, fast non expensive method. Scalable procedure. DNA obtained with this kit is highly stable and suited for use in a wide range of applications: DNA archiving, PCR and Real Time PCR, SNP analysis, NGS, Southern blotting.	RBME07/08/09
	REAL Genomic DNA Cell Kit	CELL CULTURES / SUSPENSION	Purification of genomic DNA from cell cultures and cell suspensions. Reproducible, fast non expensive method. Scalable procedure. DNA obtained with this kit is highly stable and suited for use in a wide range of applications: DNA archiving, PCR and RT-PCR, SNP analysis, NGS, Southern blotting.	RBME10/11/12
	REAL Genomic DNA Mouse Tail Kit	MOUSE TAIL	Purification of genomic DNA from mouse tail. Reproducible, fast non expensive method. Scalable procedure. DNA obtained with this kit is highly stable and suited for use in a wide range of applications: DNA archiving, PCR and RT-PCR, SNP analysis, NGS, Southern blotting.	RBME13/14
	REAL Genomic DNA Bacteria Kit	BACTERIA	Purification of genomic DNA from Gram positive or Gram negative bacteria. Reproducible, fast non expensive method. Scalable procedure. DNA obtained with this kit is highly stable and suited for use in a wide range of applications: DNA archiving, PCR and Real Time PCR, SNP analysis, NGS, Southern blotting.	RBME15
	REAL Genomic DNA Yeast Kit	YEAST	Purification of genomic DNA from yeast. Reproducible, fast non expensive method. Scalable procedure. DNA obtained with this kit is highly stable and suited for use in a wide range of applications: DNA archiving, PCR and Real Time PCR, SNP analysis, NGS, Southern blotting.	RBME16
	REAL Spin Genomic DNA Kit	ALL TYPE	All types of samples: cultured cells, animal tissues, mouse tail, paraffin-embedded tissues, bacteria, yeast, body fluids (saliva, serum,etc), hair, bloodstain. High quality DNA obtained that can be directly used in PCR, Southern, any enzymatic reaction, cloning, etc.	RBMEGS01/02/15 
	REAL MicroSpin DNA Kit	SMALL SAMPLES	Efficient isolation of genomic and mitochondrial DNA from small samples such as cells and tissues, laser microdissection samples, small amounts of blood. Silica membrane technology for DNA isolation from biopsy samples, buccal swabs, dried blood spots.	RBMEGS10/11 
	REAL Saliva DNA kit	SALIVA	Purification of highly pure DNA from saliva samples fresh or preserved. Highly stable DNA equivalent to DNA from blood for downstream applications such as DNA archiving, PCR and qPCR, SNP analysis, NGS, DNA isolation from clinical samples.	RBMEG06/07
	REAL Swabs DNA Kit		Efficient isolation of DNA from saliva buccal swabs. Highly stable DNA equivalent to DNA from blood for downstream applications such as DNA archiving, PCR and qPCR, SNP analysis, NGS, DNA isolation from clinical samples.	RBMEG20/21/22
	REAL Plant DNA Kit	PLANTS AND FUNGI	It contains a PVP solution to remove inhibitors. Toxic reagents are not used, the method can be scaled. Rapid and inexpensive. Highly stable DNA for downstream applications such as DNA archiving, PCR and qPCR, SNP analysis, Southern Blotting and NGS.	RBMEG04/05
	REAL Spin Plant DNA Kit		Method for DNA extraction using minispin columns. It contains a PVP solution to remove inhibitors. Isolation of genomic DNA from fresh or frozen/liophilized plant tissue and fungi. DNA ready for PCR, Real Time PCR, genotyping and NGS.	RBMEGS13/14 
	REAL Spin Food-Stool Kit	STOOL	Efficient and fast DNA purification from fresh or frozen feces samples. Low amounts of partially degraded DNA can be purified from complex matrix. Complete removal of PCR inhibitors and detection of specific DNA in animals, or GMO in food products, DNA isolation from fecal specimens.	RBMEGS05/06 
	REAL Spin Food-Stool Bacteria Kit	BACTERIA	Bacterial DNA extraction kit from pre- enrichment or enrichment culture from different food samples, raw material or feces. PCR and Real Time PCR ready DNA. Complete removal of PCR inhibitors. Includes Proteinase K and Lysozyme.	RBMEGS03/04 
REAL FFPE DNA Kit	Formalin fixed paraffin embedded samples	Formalin fixed paraffin embedded samples. Contains a deparaffinization solution for the complete dissolution of the wax to release the tissue. Silica membrane technology with special MicroSpin columns, DNA obtained suitable for PCR, qPCR, Next Generation Sequencing (NGS), STR Analysis.	RBMEGS12 	
Viral DNA/RNA	REAL Spin Viral DNA / RNA	200 ul serum, plasma and cell-free biological fluids	For a fast manual simultaneous isolation of viral nucleic acids. High quality viral DNA/RNA obtained that can be directly used in PCR or RT-PCR.	RBMEGS07 
Circulating DNA/RNA	REAL Circulating DNA Mini/Midi Kit	PLASMA/SERUM	High quality, high purity and inhibitor-free cell-free circulating DNA isolation kit from fresh and frozen plasma/serum samples. Biomarker research and validation for blood-based cancer detection. Ideal for detection of biomarkers in different diseases like autoimmune diseases, infectious diseases stroke, sepsis, trauma and hematologic disorders. Analysis of fetal DNA from maternal plasma.	RBMEC01/02/03 
	REAL microRNA and Cell Free RNA Mini/Midi Kit		Efficient isolation of miRNA and small RNA from liquid biopsies including serum, plasma and other biofluids. Ideal for detection of biomarkers in cancer and other diseases. Typical downstream applications: real time qRT-PCR, ChIP hybridisation.	RBMER17/30/31 
	REAL cfhDNA Monodose detc.qPCR Test	DNA detc-PCRtest	Quantification of cfDNA using cell-free human DNA detc- qPCR test. Supplied as individual ready-to-use tubes containing all the components needed to perform the quantitative PCR assay	RBMER32/34

	Product	Applications	References
Plasmid DNA	REAL Plasmid MINIPREP "Sequencing Grade" Kit	Kit designed for a rapid, small scale preparation of high purity plasmid DNA. Includes TrueBLUE lysis control reagent. Plasmidic DNA can be used in PCR, restriction analysis, subcloning, transforming and sequencing by capillary electrophoresis. Toxic reagents are not used.	RBMEPS06/07 
DNA Clean Up	REAL Clean PCR Kit	Rapid purification of PCR amplification products from other components in the reaction such as excess primers, DNA polymerase and salts. Fast clean-up of PCR products. Fragments extraction from 100 pb to 10 Kb. Concentration and salts removal of DNA in solutions.	RBMCS06/03/07 
	REAL Gel/PCR Kit	Rapid purification of highly pure DNA fragments from agarose gels and aqueous solutions, PCR amplification products from other components in the reaction. Fast clean-up of PCR fragments 100 bp - 10 Kb.	RBMCS01/02/08 
	REAL Clean & Concentration Kit	Rapid method for purification and concentration of high quality DNA from PCR or enzymatic reactions with an extremely small elution volume. Rapid purification and concentration of high-quality DNA from PCR or enzymatic reactions with specially designed microcolumns. (fragments from 100 bp to 23 kb).	RBMCS04/05/09 
Reagents & Electrophoresis	REALSAFE	Nucleic acid staining solution. Used for DNA and RNA detection. Non mutagenic, non carcinogenic. More resolutive and safer than ethium bromide. Presentation 1ml 20.000x	RBMSAFE
	REAL DNA Marker	Ready-to-use molecular weight marker, contains dye. Reduces handling steps and saves time. Easy storage: stable for 6 month at room temperature. Marker Beethoven (14 bands from 200 bp - 10.037 bp) and Marker Schumann (11 bands from 100 bp - 1250 bp).	RBMLADDER1/2
	REAL Loading DYE	DNA Loading Dye with bromophenol blue, the standard tracking dye for electrophoresis. Its conspicuous dark blue colour makes it the perfect tracking dye to monitor the progress of electrophoresis runs.	RBMDYE
	REAL DNA Remove	Detergent mixture to remove DNA and RNA from working surfaces. It degrades contaminant DNA and RNA at PCR sensibility levels.	RD055
	REAL Nuclease-Free Water	Water for Molecular Biology applications. Water for PCR and DNA/RNA isolation. Deionized, autoclaved, filtered and non-treated with DEPC.	RD058
	REAL Agarose Gel 1%	Ready-to-use agarose gels (1%) for electroforesis. Available in two differnt sizes: 7x10cm (10 samples) and 10x14cm (14 or 28 samples). 6 units/box.	R0502RS/4RS/5RS
	REAL TBE 10x	Convenient ready-to-use solution for electrophoresis. Supplied in 1L or 3L bottles. Hight purity, free from contaminants. For polyacrylamide and agarose gel electroforesis.	RBMTBE/TBE1
	REAL TAE 10x	Convenient ready-to-use solution for electrophoresis. Supplied in 1L or 3L bottles. Hight purity, free from contaminants. For polyacrylamide and agarose gel electroforesis.	RBMTAE/TAE1



Reference that includes extraction by columns

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