2022

MOLECULAR BIOLOGY GUIDE

NUCLEIC ACID PURIFICATION

SAMPLE COLLECTION & STABILIZATION

PURIFICATION & QUANTIFICATION OF CIRCULATION DNA / RNA

SEQUENCING PRODUCTS

ELECTROPHORESIS REAGENTS

	Product	Sample	Applications
Collection and preservation	**REAL Saliva Viral Sample Collection** RBMSALVB100	Saliva Viral Sample Collection Kit provides a safe and rapid all-in-one procedure for the collection, stabilization and transportation of saliva samples at ambient temperature that stabilizes viral DNA/RNA.	Stabilization Solution effectively inactive viruses and prevent nucleic acid degradation, resulting non-infectious samples to be handled and shipped safely. Sample is preserved at ambient temperature (DNA>1 year; RNA up to 1 month). Samples can be frozen (-20/-80°C) for prolonged periods.
	REAL Stool Collection Microbiome RBMSC50/250	Sample collection Microbiome kit is an integrated system for collection, transport and storage of stool samples for subsequent DNA purification.	Stabilizes the DNA for several months at room temperature and at -20ºC or -80ºC indefinitely. Suitable for NGS applications.
	REAL Saliva Collection Microbiome RBMSALMC100/500	Sample collection Microbiome kit is an 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.
	REAL Saliva Collection RBMSAL100/500	Safe and rapid all in one procedure for the collection, stabilization and transport of 2ml saliva samples at room temperature.	Painless, non invasive collection. Samples can be mailed using the standard postal system. Sample ramains stable at room temperature for 1 year.
	REAL Swabs Saliva Collection RBMSALRNA100/500	Safe and rapid all in one procedure for the collection, stabilization and transport of 1ml saliva samples at room temperature.	Painless, non invasive collection. Samples can be mailed using the standard postal system. Sample ramains stable at room temperature for 1 month.
	REAL RNA Saliva Collection RBMST01/02	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 indifinitely at -20ºC or -80ºC.
	REAL Tissues and Cells RBMEG08/09/10/11	Non toxic solution for the collection and storage of cells and tissues in different conditions which protects and stabilizes the genomic DNA and the RNA for its following isotation.	Removes the need of processing immediately the samples. Samples can be preserved for º.weeks at room temperature; month atºC and indefinitely at - 20ºC or - 80ºC.
Microbiome	**REAL Fecal DNA** RBMEGS16	Fast and efficient purification of microbial DNA for microbiome analysis from fresh and frozen human animal samples or stool stool preserved in REAL Stool Microbiome kit.	DNA suitable for microbiome analysis, PCR applications, RFLP analysis, pathogen typing, mutation analysis.
	REAL Soil DNA RBMEGS18	Fast and efficient purification of microbial DNA for microbiome analysis from enviromental samples like soil.	DNA suitable for microbiome analysis, PCR applications, RFLP analysis, pathogen typing, mutation analysis.
	REAL Microbial RBMEGS17	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.
	REAL Saliva RBMEGS19	Fast and efficient purification of microbial DNA for microbiome analysis from buccal samples.	DNA suitable for microbiome analysis, PCR applications, RFLP analysis, pathogen typing, mutation analysis.
	REAL Vagina RBMEGS20	Self-collection swab and kit for a fast and efficient purification of microbial DNA for microbiome analysis from vagina samples.	DNA suitable for microbiome analysis, HPV, RFLP analysis, pathogen typing, mutation analysis,PCR applications .
RNA	**REAL Viral RNA** RBMER19	Viral RNA from cell-free samples such as serum, plasma and cerebrospinal fluid.	Viral RNA can be used directly as template for standard PCR or RT-PCR. Complete removal of serum, plasma, cell-free
	REAL Tissue Cells RNA RBMER20/21	Total RNA from tissues and cells using microspin columns. Integrates a gDNA removal.	RNA ready for downstram applications such as RT-PCR, Nothern Blotting, Primer extension, mRNA selection, cDNA syntesis, RNase protection Elution assay.
	REAL Plant RNA RBMER22/23	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, Nothern Blotting, primer extension, array technology, RNase protection assays.
	REAL Blood RNA RBMER24/25	Cellular RNA from fresh whole blood.	Silica membrane technology, lysate gradients and gDNA removal with one column in one step.
	REAL Saliva RNA RBMER35	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.
Viral DNA/RNA	**REALPURE** SPIN viral DNA/RNA RBMEGS07	200 µl 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.

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Genomic DNA	**REAL BLOOD** RBMES05/06	DNA extraction from fresh or frozen blood collected in tubes containing EDTA, citrate or heparine. .	Reproducible, fast and non expensive method. No use of toxc reagents. DNA obtained can be used for PCR and qPCR, SNP analysis, sequencing
	REAL SPIN BLOOD RBMEGS08/09	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; typical yield: 6-9 ug genomic DNA; elution volume: 50-200ul.
	REALPURE TISSUE RBME07/08/09	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
	REALPURE CELLS RBME10/11/12	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 Real Time PCR, SNP analysis, NGS, Southern blotting
	REALPURE MOUSE TAIL RBME13/14	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 Real Time PCR, SNP analysis, NGS, Southern blotting
	REALPURE BACTERIA RBME15	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
	REALPURE YEAST RBME16	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
	REALPURE SPIN GENOMIC RBMEGS01/02/15	All types of samples: cultured cells, animal tissues, mouse tail, paraffin-embedded tissues, bacteria, yeast, body fluids (saliva, serum,etc), hair, bloodstain.	Allows to process any kind of sample. High quality DNA obtained that can be directly used in PCR, Southern, any enzymatic reaction, cloning, etc. .
	REALPURE MICROSPIN GENOMIC RBMEGS10/11	Efficient isolation of genomic and mitochondrial DNA from small samples such us cells and tissues, laser microdisection samples, small amounts of blood.	Silica membrane technology for DNA isolation from biopsy samples, buccal swabs, dried blood spots.
	REAL SALIVA RBMEG06/07	Purification of highly pure DNA from saliva samples preserved with REAL Saliva Sample Collection kit or Oragene self Collection kits.	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.
	REAL SWABS DNA RBMEG20/21/22	Efficient isolation of DNA from saliva buccal swabs or with our REAL Swabs sample collection kit.	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.
	REALPURE PLANTS RBMEG04/05	Large samples of 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.
	REALSPIN PLANTS RBMEGS13/14	Method for DNA extraction from tissues of plants and fungi 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
	REAL SPIN FOOD-STOOL RBMEGS05/06	Efficient and fast DNA purification from fresh or frozen feces samples.	Low amounts of partially degrade 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.
	REAL SPIN FOOD-STOOL BACTERIA RBMEGS03/04	PCR ready bacterial DNA extraction kit from pre-enrichment or enrichment culture from different food samples, raw material or feces.	To isolate PCR ready bacterial DNA from pre-enrichment or enrichment cultures from different food samples and stool samples. PCR and Real Time PCR ready DNA. Complete removal of PCR inhibitors. Includes Proteinase K and Lysozyme.
	REALPURE FFPE RBMEGS12	Formalin fixed paraffin embedded samples.	Silica membrane technology, DNA obtained suitable for PCR, qPCR, Next Generation Sequencing (NGS), STR Analysis.
Circulating DNA	**REAL Circulaing DNA** RBMEC01/02/03	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 disseases like autoimmune disseases, infection disseases stroke, sepsis, trauma and hematologic disorders. Analysis of fetal DNA from maternal plasma.
	REAL miRNA Cell Free RNA RBMER17/30/31	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 qRTPCR, ChIP hybridisation.
	REAL Quantification cfDNA RBMER32/33/34	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.

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Plasmid DNA	REAL Plasmid MiniPrep Sequencing grade RBMEPS06/07	Kit designed for a rapid, small scale preparation of high purity plasmid DNA. Includes Ture Blue lysis control reagent.	Plasmidic DNA can be used in PCR, restriction analysis, subcloning, transforming and sequencing by capillary electrophoresis. Toxic reagents are not used.
	REAL Plasmid Midi Maxi RBMEPS04/05	Plasmid DNA isolation from recombinant E. coli cultures.	To isolate high purity transfection grade plasmid DNA from bacteria cell lysates. Includes gravity-flow columns and necessary reagents for ultrapure plasmid purification. Includes specialized filters to remove, optional, cellular debris from lysates.
DNA Clean up	REAL PCR Clean up RBMCS06/03/07	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 agarose gel 200 pb -10 Kb. Concentration and salts removal of DNA in solutions. Organic solvents are not used. Spin columns. Protocol done in 10 minutes.
	REAL Clean Gel PCR RBMCS01/02/08	Rapid purification of highly pure DNA fragments from agaroes gels and aqueous solutions, PCR amplification products from other components in the reaction.	Fast clean-up of PCR fragments 100 bp - 10 Kb. Organic solvents are not used. Spin columns, the protocol is done in 10 minutes.
	REAL Clean & Concentration RBMCS04/05/09	Rapid method for purification and concentration of high quality DNA from PCR or enzymatic reactions with an extermely small elution volume	Rapid purification and concentration of high-quality DNA from PCR or enzymatic reactions with extremely small elution volume. Specially designed microcolumns. Protocol is done in 2 minutes.
Sequencing	REAL Spin DTR RBMS01	Fast and efficient removal of unincorporated dye terminators from sequencing reactions using a simple spin column procedure.	Ready to use prehydrated gel filtration material. Fast spin column with only two short centrifugation steps. 95% recovery >22pb.
Reagents & electrophoresis	DNA REMOVE RD055	Detergent mixture to remove DNA and RNA from working surfaces.	It degrades contaminant DNA and RNA at PCR sensivility levels.
	RNase REMOVE RD056	Removes RNase contamination from glass and plastic material surfaces.	It works by contact and it is supplied with an applicator to be vaporized.
	NUCLEASE FREE WATER RD057/RD058	Water for Molecular Biology applications.	Water for PCR and DNA/RNA isolation. Deionized, autoclaved, filtered and non-treated with DEPC.
	REALSAFE RBMSAFE	Nucleic acid staining solution.	Used for DNA and RNA detection. Non mutagenic, non carcinogenic. More resolutive than ethium bromide.

More information and protocols www.reallaboratory.com

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