DNA Guide

REAL MOLECULAR BIOLOGY

Nucleic acid To purify	Sample Volume Sample	Isolation Method	Product Reference	When to use	Advantages/Observations
Genomic DNA	**All types of samples: cultured cells, animal tissues, mouse tail, paraffin-embedded tissues, bacteria, yeast, body fluids(saliva, serum, etc), hair, blood stain.**	Buffer Solutions	**REALPURE Genomic DNA Extraction from Cells and Tissues** ***RBMEG01*** ***RBMEG02*** ***RBMEG03***	You can process any sample type, the technical service of REAL it can give him the protocol for your sample.	Toxic reagents are not used. The method can be scaled. Rapid and very economical.
	All types of samples: blood, cultured cells, animal tissues, mouse tail, paraffin-embedded tissues, bacteria, yeast, body fluids(saliva, serum,etc), hair, blood stain.	Silica Membrane Column	**REALPURE SPIN** ***RBMEGS01*** ***RBMEGS02***	You can process any sample type, the technical service of REAL it can give him the protocol for your sample.	High quality DNA obtained that can be directly used in PCR, Southern, any enzymatic reaction, cloning, etc.
	Blood: 5 µl to 10 ml Saliva: 100 µl to 5 ml Semen: 100 µl to 5 ml	Buffer Solutions	**REALPURE DNA "SSS"** ***RBME01*** ***RBME02***	Large volumes of whole blood, saliva and semen.	Toxic reagents are not used. The method can be scaled. Rapid and very economical.
	Plants and fungi: 20 mg to 500 mg		**REALPURE Plants and Fungi** ***RBMEG04*** ***RBMEG05***	Large samples of plants and fungi. It contains a PVP solution to remove polysaccharides or phenolic compounds.	Toxic reagents are not used. The method can be scaled. Rapid and very economical.
	Bacterial DNA: 1.5 ml of medium culture	Silica Membrane Column	**REALPURE SPIN Food-Stool "Bacteria"** ***RBMEGS03*** ***RBMEGS04***	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.
	Total DNA from food and stool samples: Up to 200 mg		**REALPURE SPIN Food-Stool** ***RBMEGS05*** ***RBMEGS06***	Rapid purification of high quality DNA, low amounts of partially degrade DNA can be purified from complex matrices.	Complete removal of PCR inhibitors. Detection of specific DNA in animals, of GMO in food products, DNA isolation from fecal specimens.
Plasmid DNA	**1.5-3.0 ml culture volume**	Buffer Solutions	**REAL Miniprep Turbo** ***RBMEP01***	Very useful in inserts screenings of recombinants bacteria colonies.	Fast, simple and economical method. Toxic reagents are not used.
	1.5-3.0 ml culture volume	Silica Membrane Column	**REALPLASMID SPIN Miniprep** ***RBMEPS01*** ***RBMEPS03***	The plasmidic DNA can be used in PCR, restriction analysis, subcloning, transforming and sequencing by capillary electrophoresis.	Toxic reagents are not used. Fast and simple method.
	25-200 ml culture volume		**REALPLASMID SPIN Midi/Maxiprep** ***RBMEPS02***	The customer chooses the size of the bacteria cultures which he wants to work.	Toxic reagents are not used. Fast and simple method.
	25-500 ml culture volume	Buffer Solutions Silica matrix	**REAL Plasmid** ***RBMEP03*** ***RBMEP04***	Allows process of bacteria cultures in a range from 25 ml to 500 ml using the same kit.	Flexible kit, it has optimized protocol for each culture volume.
	25-500 ml culture volume	Buffer Solutions Silica matrix	**Endotoxin-Free REAL Plasmid** ***RBMEP05*** ***RBMEP06***	Allows process of bacteria cultures in a range from 25 ml to 500 ml using the same kit. Endotoxines are removed	Flexible kit, it has optimized protocol for each culture volume. High quality plasmid DNA is obtained to use in transfection protocols.
PCR ready genomic DNA	**Animal tissue, mouse tail, cultured cells and hair shaft**	Buffer Solutions	**REALPURE TURBO Tissues and Cells** ***RBMET01***	It allows a fast extraction of PCR ready genomic DNA in just 15 minutes.	It includes all necessary reagents for doing the whole process, even a ready to use HOT STAR polymerase.
	Bucal Cells		**REALPURE TURBO Bucal Cells** ***RBMET03***	Easy and economical method for collecting and preparing PCR ready genomic DNA	It includes all necessary reagents for the sample collection and transport (bucal swab), the DNA isolation and the amplification reaction (HOT STAR Polymerase).
	Blood: 5 µl Stain blood Semen: 5 µl		**REALPURE TURBO Blood** ***RBMET02***	It allows a fast extraction of PCR ready genomic DNA in just 5minutes.	It includes all necessary reagents for doing the whole process, even a ready to use HOT STAR polymerase.

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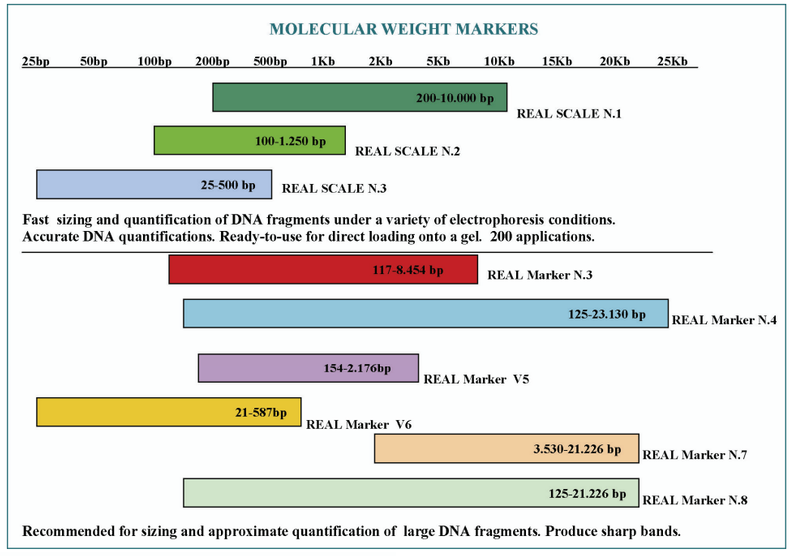
DNA fragments	**PCR fragments. DNA from agarose gel. DNA concentration.**	Silica Membrane Column	**REAL Clean Spin** ***RBMCS01*** ***RBMCS02***	Fast clean-up of PCR fragments 100 bp to 10 Kb. Gel extraction of DNA fragments 200 pb to 10 Kb. Concentration and salts removal of DNA in solutions.	Organic solvents are not used. It uses Spin columns, fast and rapid method. The protocol is done in 10 minutes.
	PCR fragments. DNA from agarose gel. DNA concentration.	Silica Matrix	**REAL Clean Matrix** ***RBMCM01***	Fast clean-up of PCR fragments 100 bp to 10 Kb. Gel extraction of DNA fragments 200 pb to 50 Kb. Concentration and salts removal of DNA in solutions.	Organic solvents are not used. Simple and economical method. The protocol is done in 30 minutes.
	PCR fragments.	Ultrafiltration Membrane	**REALTURBO 96 Microplate** ***RBMTL01*** ***RBMTL02***	96-well microplate format for a fast and efficient contaminants removal from the PCR products.	Allows process from 1 to 96 samples. Flexible method, the protocol can be done manually with a vacuum system or a centrifuge for micro plates, or automatically in liquid handling robots
Genomic DNA (High Throughput applications)	**Animal tissue: 20 mg Mouse Tail: 20 mg Culture cells: up to 5x 10^6. Blood: 200 µl. Body fluids: 200 µl.**	Silica Membrane Column	**REALPURE Spin 96 Genomic DNA Purification System** ***RBMEA02*** ***RBMEA03***	96-well microplate format for a fast and simple preparation of genomic DNA from different samples.	Manual or completely automated processing in liquid handling systems.
	Blood: 20 µl.	Buffer solutions	**REALPURE Spin Animal Blood 384** ***RBMEA01***	For a fast manual or automation genomic DNA isolation from animal whole blood using 384 well micro plates.	Each kit includes the reagents to process six 384-well micro plates (not includes in the kit) around 2304 samples.



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