

Isolation and Purification of DNA*

Product	Cat. No.	Pack Size
Agarose Gel DNA Extraction Kit for the elution of DNA from agarose gel slices	11 696 505 001	up to 100 purifications
DNA Isolation Kit for Cells and Tissue for the extraction of genomic DNA from cells and tissues ranging in size from 50 to 150 kb	11 814 770 001	10 isolations for 400 mg tissue or 5 x 10 ⁷ cultured cells
DNA Isolation Kit for Mammalian Blood for the isolation of intact genomic DNA from mammalian whole blood, lymphocyte, or buffy coat samples	11 667 327 001	25 purifications
High Pure 96 UF Cleanup Kit for high-throughput purification of PCR products by ultrafiltration	04 422 694 001	2 x 96 purifications
High Pure 96 UF Cleanup Plates for high-throughput purification of PCR products by ultrafiltration	04 422 716 001	10 x 96 reactions
High Pure PCR Cleanup Micro Kit for purification of products from PCR and other reactions	04 983 955 001	up to 50 purifications
	04 983 912 001	up to 200 purifications
High Pure PCR Product Purification Kit for the purification of PCR reaction products	11 732 668 001	up to 50 purifications
	11 732 676 001	up to 250 purifications
High Pure PCR Template Preparation Kit for isolating genomic nucleic acids for PCR, restriction enzymes analysis, and Southern blotting	11 796 828 001	up to 100 purifications
High Pure Plasmid Isolation Kit small scale "mini-preps" for sequencing, PCR, and cloning	11 754 777 001	up to 50 purifications
	11 754 785 001	up to 250 purifications
High Pure Viral Nucleic Acid Kit for isolating viral DNA and RNA for PCR or RT-PCR	11 858 874 001	up to 100 purifications
High Pure Viral Nucleic Acid Kit Large Volume for the isolation of viral nucleic acids for PCR and RT-PCR	05 114 403 001	up to 40 purifications
High Pure Viral Nucleic Acid Buffer Set for the isolation of viral nucleic acids for PCR and RT-PCR	12 011 875 001	up to 100 reactions
High Pure 16 System Viral Nucleic Acid Kit for the isolation of viral nucleic acids for PCR and RT-PCR	12 011 816 001	6 x 16 isolations
Quick Spin Columns for radiolabeled DNA Sephadex G-25	11 273 922 001	20 columns
	11 273 949 001	50 columns
Quick Spin Columns for radiolabeled DNA Sephadex G-50	11 273 965 001	20 columns
	11 273 973 001	50 columns
mini Quick Spin DNA Columns	11 814 419 001	50 columns
mini Quick Spin Oligo Columns	11 814 397 001	50 columns
Genopure Plasmid Midi Kit for medium-scale (midi) preparation of plasmid DNA	03 143 414 001	up to 20 preparations
Genopure Plasmid Maxi Kit for large-scale (maxi) preparation of plasmid DNA	03 143 422 001	up to 10 preparations
Genopure Buffer Set for Low-Copy Number Plasmids for isolation of low-copy number plasmid DNA in combination with the Genopure Plasmid Kits	04 634 772 001	up to 20 maxi preps or 60 midi preps
Red Blood Cell Lysis Buffer for the preferential lysis of erythrocytes in human whole blood	11 814 389 001	100 ml
TriPure Isolation Reagent for the simultaneous isolation of DNA, RNA, and denatured proteins from cells or tissues of human, plant, yeast, bacterial, or viral origin.	11 667 157 001	50 ml
	11 667 165 001	200 ml

* All products are intended for general laboratory use.

Isolation and Purification of RNA*

Product	Cat. No.	Pack Size
High Pure FFPE RNA Micro Kit for isolation of total RNA from formalin-fixed, paraffin-embedded tissue	04 823 125 001	up to 50 isolations
High Pure RNA Isolation Kit for small scale preparations of total RNA (free of genomic DNA) from blood, cultured cells, yeast, and bacteria	11 828 665 001	up to 50 purifications
High Pure RNA Tissue Kit for the isolation of total RNA from tissue	12 033 674 001	up to 50 isolations
High Pure RNA Paraffin Kit for the isolation of total RNA from fresh-frozen and formalin-fixed, paraffin-embedded tissues	03 270 289 001	up to 100 purifications
High Pure Viral RNA Kit for the isolation of viral RNA for RT-PCR	11 858 882 001	up to 100 purifications
High Pure miRNA Isolation Kit for purification of small or total RNA from cells, tissue, FFPE tissue sections, and plant	05 080 576 001	up to 50 isolations
mRNA Capture Kit for the immobilization of poly(A ⁺) RNA in a PCR tube, prior to reverse transcription	11 787 896 001	192 reactions
mRNA Isolation Kit for the affinity isolation of poly(A ⁺) RNA	11 741 985 001	at least 70 µg mRNA
mRNA Isolation Kit for Blood/Bone Marrow for the isolation of mRNA from whole blood or bone marrow lysates, preserved with the RNA/DNA Stabilization Reagent for Blood/Bone Marrow	11 934 333 001	30–100 isolations
RNA/DNA Stabilization Reagent for Blood/Bone Marrow for instantaneous stabilization of DNA and RNA in blood or bone marrow samples prior to isolation mRNA or DNA (used with the mRNA Isolation Kit for Blood/Bone Marrow)	11 934 317 001	500 ml
Quick Spin Columns for radiolabeled RNA Sephadex G-25	11 273 990 001	20 columns
Quick Spin Columns for radiolabeled RNA Sephadex G-50	11 274 015 001	20 columns
mini Quick Spin RNA Columns	11 814 427 001	50 columns
Red Blood Cell Lysis Buffer for the preferential lysis of erythrocytes in human whole blood	11 814 389 001	100 ml
Streptavidin Magnetic Particles	11 641 778 001 11 641 786 001	2 ml 10 ml
TriPure Isolation Reagent for the simultaneous isolation of DNA, RNA, and denatured proteins from cells or tissues of human, plant, yeast, bacterial, or viral origin.	11 667 157 001 11 667 165 001	50 ml 200 ml

MagNA Lyser Instrument and Accessories

Product	Application*	Cat. No.	Pack Size
MagNA Lyser Instrument	Automated homogenization of tissue samples	03 358 968 001 03 358 976 001	1 instrument plus accessories
MagNA Lyser Rotor	Holds up to 16 sample tubes for tissue homogenization	03 359 093 001	1 rotor
MagNA Lyser Rotor Cooling Block	Houses the MagNA Lyser Rotor to maintain the temperature of the samples at +2 to +8°C	03 359 085 001	1 cooling block
MagNA Lyser Green Beads	Specially designed ceramic beads to achieve optimal homogenization of various sample materials	03 358 941 001	100 tubes (prefilled with ceramic beads)

Automated Isolation using the MagNA Pure LC Instrument

Product	Application*	Cat. No.	Pack Size
MagNA Pure LC Instrument	Robotic workstation for fully automated nucleic acid preparation and filling of LightCycler® Capillaries, 96-well PCR plates, and tubes suitable for the most commonly used PCR instruments	12 236 931 001	1 instrument plus accessories
Reagent Kits for Isolation of genomic DNA			
MagNA Pure LC DNA Isolation Kit I	Ready-to-use reagents for the isolation of high-quality genomic DNA from whole blood, white blood cells, peripheral blood lymphocytes, and cultured cells, using the MagNA Pure LC Instrument.	03 003 990 001	1 kit (192 reactions)
MagNA Pure LC DNA Isolation Kit II (Tissue)	Ready-to-use reagents for the isolation of high-quality, intact genomic DNA from a wide variety of human and animal tissue samples, using the MagNA Pure LC Instrument.	03 186 229 001	1 kit (192 reactions)
MagNA Pure LC DNA Isolation Kit III (Bacteria & Fungi)	Ready-to-use reagents for the isolation of high-quality, intact bacterial or fungal DNA from the most difficult-to-process research sample materials, using the MagNA Pure LC Instrument.	03 264 785 001	1 kit (192 reactions)
MagNA Pure LC DNA Isolation Kit – Large Volume	Ready-to-use reagents for the purification of genomic DNA from large amounts of whole blood (up to 1 ml), blood cells, or culture cells (up to 5 x 10 ⁶), using the MagNA Pure LC Instrument.	03 310 515 001	1 kit (96 – 288 reactions)
Reagent Kits for Isolation of viral and total Nucleic Acids			
MagNA Pure LC Total NA Isolation Kit	Ready-to-use reagents for the purification of viral nucleic acid from serum, plasma and whole blood, using the MagNA Pure LC Instrument	03 038 505 001	1 kit (192 reactions)
MagNA Pure LC Total NA Isolation Kit – Large Volume	Ready-to-use reagents for the purification of viral nucleic acids from large amounts (up to 1 ml) of serum and plasma, using the MagNA Pure LC Instrument	03 264 793 001	1 kit (192 reactions)
Reagent Kits for Isolation of total RNA			
MagNA Pure LC RNA Isolation Kit – High Performance	Ready-to-use reagents, developed to maximize yield of purified total RNA with superior quality isolated from blood, blood cells or culture cells, using the MagNA Pure LC Instrument	03 542 394 001	1 kit (192 reactions)
MagNA Pure LC RNA Isolation Kit III (Tissue)	Ready-to-use reagents for the purification of total RNA from human and animal frozen (–80°C) tissues or other pre-treated (<i>e.g.</i> , RNAlater® tissues (10 mg tissue or less), as well as paraffin-embedded tissue sections, using the MagNA Pure LC Instrument	03 330 591 001	1 kit (192 reactions)

10

Automated Isolation using the MagNA Pure LC Instrument, continued

Product	Application*	Cat. No.	Pack Size
Reagent Kits for Isolation of mRNA			
MagNA Pure LC mRNA Isolation Kit I (Blood, Blood Cells)	Ready-to-use reagents for the isolation of high-quality and undegraded mRNA from whole blood, white blood cells, peripheral blood mononuclear cells, and culture cells, using the MagNA Pure LC Instrument	03 004 015 001	1 kit (192 reactions)
MagNA Pure LC mRNA Isolation Kit II (Tissue)	Ready-to-use reagents for the isolation of high-quality, intact mRNA from a wide variety of human and animal tissue samples, using the MagNA Pure LC Instrument.	03 172 627 001	1 kit (192 reactions)
MagNA Pure LC mRNA HS Kit	Ready-to-use reagents for the purification of mRNA from up to 1×10^7 WBCs (white blood cells) or PBMCs (peripheral blood mononuclear cells), using the MagNA Pure LC Instrument	03 267 393 001	1 kit (192 reactions)

Automated Isolation using the MagNA Pure Compact Instrument

Product	Application*	Cat. No.	Pack Size
MagNA Pure Compact Instrument	Automated nucleic acid isolation for a broad range of applications	03 731 146 001	1 instrument including internal PC with touch-screen monitor and bar-code scanner
Kits and Reagents for the Isolation of DNA			
MagNA Pure Compact Nucleic Acid Isolation Kit I	<ul style="list-style-type: none"> ▶ Genomic DNA from mammalian whole blood or cultured cells ▶ Viral nucleic acids from plasma or serum ▶ Sample volume range 100 μl – 400 μl 	03 730 964 001	1 kit (32 isolations) including all required plastic disposables
MagNA Pure Compact Nucleic Acid Isolation Kit I - Large Volume	<ul style="list-style-type: none"> ▶ Genomic DNA from mammalian whole blood or cultured cells ▶ Viral nucleic acids from plasma or serum ▶ Sample volume range 500 μl – 1000 μl 	03 730 972 001	1 kit (32 isolations) including all required plastic disposables
MagNA Pure Bacteria Lysis Buffer	▶ DNA from bacteria in many different sample types, such as urine, BAL (bronchoalveolar lavage), sputum, CSF, swabs, or bacterial cultures	04 659 180 001	20 ml
MagNA Pure DNA Tissue Lysis Buffer	▶ Genomic DNA from mammalian tissue. Sample volume range 1 – 10 mg	04 805 160 001	100 ml
Kit for the Isolation of RNA			
MagNA Pure Compact RNA Isolation Kit	<ul style="list-style-type: none"> ▶ RNA from mammalian tissue, blood, cultured cells, and blood cells ▶ Sample amount up to 10 mg 	04 802 993 001	1 kit (32 isolations) including all required plastic disposables

* All products are intended for general laboratory use.

For detailed information about the MagNA Pure LC System and accessories, please visit www.magnapure.com

10

Companion Reagents for Isolating Nucleic Acids

Product	Description	Application
Proteases		
Proteinase K recombinant PCR Grade, solution	Non-specific enzyme for digesting cellular proteins	Rapid inactivation of endogenous nucleases and isolation of nucleic acid from tissues or cell lines
Proteinase K recombinant PCR Grade, lyophilizate	See above	See above
Pronase from <i>Streptomyces griseus</i>	Pronase is a various mixture of proteases with different proteolytic activities	In conjunction with other enzymes (e.g. collagenase, trypsin), pronase is suitable for the isolation of a variety of cell types
Nucleases and nuclease inhibitors		
DNase I recombinant, RNase-free from bovine pancreas, expressed in <i>Pichia pastoris</i>	Endonuclease for double- and single-stranded DNA, free of ribonuclease und protease	Isolation of DNA-free RNA
RNase, DNase-free	RNase mixture, free of contaminating DNases	Isolation of RNA-free DNA
RNase A	Pyrimidine-specific endonuclease that acts on single-stranded RNA	Isolation of genomic DNA
RNase H	Endonuclease that cleaves RNA in RNA:DNA hybrids	Elimination of RNA template after first strand cDNA synthesis
Protector RNase Inhibitor	Recombinant from rat lung	Protects mRNA and total RNA during isolation and cDNA synthesis
RNase from bovine pancreas	Crude mixture of RNases.	Isolation of genomic DNA
Additional reagents required in some purification procedures		
Agarose LE low electro endosmosis	Electrophoretic gel medium	Electrophoretic separation of nucleic acids, size range 0.2 – 15 kbp
Agarose MS molecular screening	Electrophoretic gel medium	Electrophoretic separation of nucleic acids, of PCR products genotyping allele sizing, STR analysis
Agarose MP multi purpose agarose	Electrophoretic gel medium	Electrophoretic separation of nucleic acids, especially high molecular weight DNA
Cesium chloride (CsCl), MB grade	Standard centrifugation medium	Separation and purification of nucleic acids by density
Glycogen solution	Inert macromolecule	Carrier for the precipitation of nucleic acids
Guanidine hydrochloride	Crystalline denaturant	Protein denaturing agent; component of buffers
Guanidine thiocyanate	Crystalline denaturant	Protein denaturing agent; component of buffers
Nonidet P40	Non-ionic detergent	Component of buffers; stabilizes enzymes
Poly(A)	Polyadenylic acid, sodium salt	RNA carrier for precipitation

Features	Cat. No.	Pack Size
▶ Ideal for isolation of nucleic acids, since it is free of RNases and DNases	03 115 887 001	1.25 ml
▶ Enhances isolation of intact nucleic acids, since it rapidly inactivates endogenous nucleases	03 115 828 001	5 ml
▶ Especially suited for isolation of PCR templates, since preparation has minimized level of contaminants.	03 115 844 001	25 ml
▶ Same as Proteinase K solution	03 115 836 001	25 mg
	03 115 879 001	100 mg
	03 115 801 001	2 x 250 mg
	03 115 852 001	4 x 250 mg
▶ Total degradation of proteins during the isolation of DNA and RNA (it is not necessary to let pronase self-digest prior to use)	10 165 921 001	1 g (non-sterile)
	11 459 643 001	5 g (non-sterile)
▶ Ideal for the isolation of RNA, since it is free of RNases	04 716 728 001	10,000 U
▶ Rely on a recombinant animal-free enzyme		
▶ Ideal for isolation of DNA, since it is free of DNases	11 119 915 001	500 µg
▶ Unlike most RNase preparations, does not need to be boiled prior to use		
▶ Used in many DNA isolation procedures	10 109 142 001	25 mg
	10 109 169 001	100 mg
▶ Eliminates potential source of PCR inhibition	10 786 349 001	25 units
	10 786 357 001	100 units
▶ Active over a broad pH range (pH 5–8)	03 335 399 001	2000 units
▶ Free of endonucleases and DNA nicking activities	03 335 402 001	10000 units
▶ May be used in one-step or two-step RT-PCR		
▶ Used in many DNA isolation procedures	10 109 134 001	500 mg
▶ Can be used for the analysis of PCR product, examination of restriction enzyme digest of plasmid, cosmid and λ-phage DNA and electrophoresis of RNA	11 685 660 001	100 g
	11 685 678 001	500 g
▶ Resolve PCR fragments (50 bp – 1 500 bp)	11 816 586 001	100 g
▶ Free of DNases and RNases	11 816 594 001	500 g
▶ Discriminate between fragments that differ in only 4 bp of length		
▶ Suitable for analytical and preparative isolation	11 388 983 001	100 g
▶ Free of DNases and RNases	11 388 991 001	500 g
▶ Separation of high molecular weight DNA (PFGE)		
▶ Very highly purified preparation	10 757 306 001	1 kg
▶ Prepared especially for molecular biology procedures		
▶ Unlike tRNA, will not interfere with downstream procedures	10 901 393 001	20 mg
▶ Very low absorbance at 260 and 280 nm, so it doesn't interfere with UV detection of nucleic acids	11 492 942 001	500 g
▶ Very low absorbance at 260 and 280 nm, so it doesn't interfere with UV detection of nucleic acids	11 685 929 001	500 g
▶ Stronger protein denaturant than guanidine hydrochloride		
▶ Highly purified	11 332 473 001	5 x 10 ml
▶ Free of enzyme inhibitors		
▶ Readily soluble salt	10 108 626 001	100 mg

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Companion Reagents for Isolating Nucleic Acids, continued

Product	Description	Application
Additional reagents required in some purification procedures		
Sodium Dodecyl Sulfate (SDS), electrophoresis grade	Anionic detergent; highly purified	Denaturation of proteins before or during electrophoresis; dissociation of protein-nucleic acid complexes
Tris	Biological buffer, crystalline	Preparation of buffers, pH 7–9, for biological and biochemical applications
Triton X-100	Non-ionic detergent	Solubilization agent for proteins

Features	Cat. No.	Pack Size
<ul style="list-style-type: none"> ▶ Rapidly and completely denatures most proteins ▶ Particularly suited for gel electrophoresis 	11 667 289 001	1 kg
<ul style="list-style-type: none"> ▶ Free of proteases, RNases, and DNases ▶ pK 8.3 (at 20°C), which makes Tris ideal for preparing buffers in the biological pH range ▶ Used in many published purification procedures 	10 708 976 001 11 814 273 001	1 kg 5 kg
<ul style="list-style-type: none"> ▶ Ultrapure 	11 332 481 001	5 x 10 ml

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