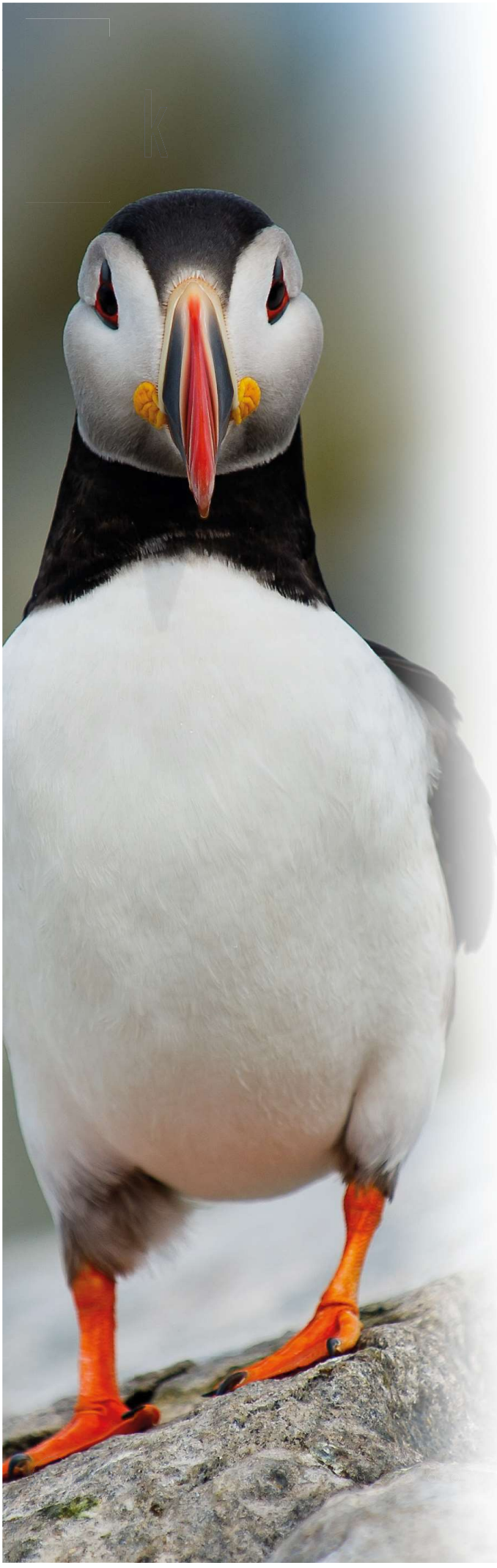


DNA EXTRACTION

PLASMID EXTRACTION

FRAGMENT DNA EXTRACTION

GENOMIC DNA EXTRACTION

RNA EXTRACTION

VIRAL ACID NUCLEIC EXTRACTION

ATP™ Plasmid Mini Kit

Description

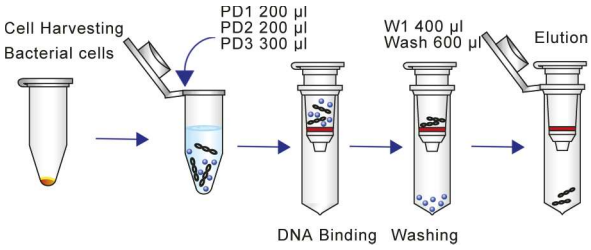
ATP™ Plasmid Mini Kit is designed for the rapid, easily-handling, and cost-effective isolation of plasmid or cosmid DNA from 1~4 ml of bacterial cultures. This procedure uses a modified method of alkaline lysis and RNase treatment for creating cleared cell lysate with minimal genomic DNA and RNA contaminants. Subsequently, the lysate is neutralized and adjusted to high-salt binding conditions adaptable to the adsorption of DNA in one step. In the presence of a chaotropic salt, the plasmid DNA in the lysate binds to the uniquely designed glass-fiber matrix in the spin column. Whereas RNA, cellular proteins, and other unwanted impurities flow through the column and are easily and efficiently removed from reaction mixture. After a brief Washing Step with ethanol-contained Wash Buffer to remove endonucleases, salts and other contaminants, the purified plasmid DNA is eluted by low-salt Elution Buffer or water. The entire procedure can be completed in 20 minutes and the purified plasmid DNA is immediately ready for restriction digestion, ligation, PCR, and sequencing. The procedure does not require DNA phenol extraction and alcohol precipitation.

Quick View

Format: Spin columns
Sample: 1~4 ml bacterial cultures
Operation: Centrifuge / vacuum manifold
Operation time: 20 minutes
Binding capacity: Up to 30 µg per Column
Expected yield: 25~35 µg for high-copy plasmid;5~15 µg per low-copy plasmid
Application: DNA Library Screening and Analysis; DNA sequencing; Transformation; PCR; Restriction Digestion

Cat Nº

ATP™ Plasmid Mini Kit	100/300 prep	TR-BA1-0001 TR-BA1-0002
ATP™ Plasmid Mini Binding Column	50 pc	TR-BA1-0008



ATP™ Plasmid Midi Kit

Description

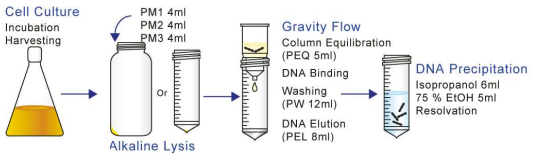
ATP™ Plasmid Midi Kits use pre-packed resin of anion-exchange column to purify plasmid or cosmid DNA from 20~200 ml bacterial cultures. In the process, the modified method of alkaline lysis and RNase treatment are used for creating cleared cell lysate with minimal genomic DNA and RNA contaminants. By a gravity-flow procedure, the plasmid DNA in crude lysate binds to the anionexchange resin in the appropriate salt and pH conditions. Whereas RNA, cellular proteins, and other unwanted impurities flow through the column and are easily and efficiently removed from reaction mixture. After a brief washing step to wash off contaminants, the purified plasmid DNA is eluted by high-salt buffer and then precipitated by isopropanol for desalting. The entire procedure can be completed in 120 minutes without ultracentrifuges, HPLC or other toxic reagents.

Quick View

Sample: 20~50 ml of bacterial culture for high-copy number plasmid
100~200 ml of bacterial culture for low-copy number plasmid
Operation: Gravity-flow
Operation time: 120 minutes
Yield: Up to 200 µg of plamsid
Application: Transfection; Microinjection; Sequencing; Restriction Enzyme Digestion; Transcription

CAT Nº

ATP™ Plasmid Midi Kit	25 prep	TR-BA1-0003
ATP™ Plasmid Midi Resin Column	10 pc	TR-BA1-0009



TK Fragment DNA Extraction

ATP™ Plasmid Maxi Kit

Description

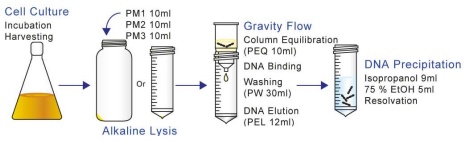
ATP™ Plasmid Maxi Kits use pre-packed resin of anion-exchange column to purify plasmid or cosmid DNA from 100~400 ml bacterial cultures. In the process, the modified method of alkaline lysis and RNase treatment are used for creating cleared cell lysate with minimal genomic DNA and RNA contaminants. By a gravity-flow procedure, the plasmid DNA in crude lysate binds to the anionexchange resin in the appropriate salt and pH conditions. Whereas RNA, cellular proteins, and other unwanted impurities flow through the column and are easily and efficiently removed from reaction mixture. After a brief washing step to wash off contaminants, the purified plasmid DNA is eluted by high-salt buffer and then precipitated by isopropanol for desalting. The entire procedure can be completed in 120 minutes without ultracentrifuges, HPLC or other toxic reagents.

Quick View

Sample: 100~200 ml of bacterial culture for high-copy number plasmid
250~400 ml of bacterial culture for low-copy number plasmid
Operation: Gravity-flow
Operation time: 120 minutes
Yield : Up to 500µg of plamsid
Application : Transfection; Microinjection; Sequencing; Restriction Enzyme Digestion; Transcription

Cat Nº

ATP™ Plasmid Maxi Kit	10/25 prep	TR-BA1-0004 TR-BA1-0005
ATP™ Plasmid Maxi Resin Column	10 pc	TR-BA1-0010



ATP™ Gel/PCR Fragment DNA Extraction Kit

Description

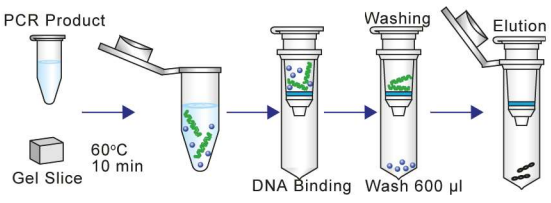
ATP™ Gel/PCR Fragment DNA Extraction Kit is designed to recover or concentrate DNA fragments (50 bp-10 kb) from agarose gel, PCR or other enzymatic reaction. The method uses a chaotropic salt, guanidine thiocyanante, to dissolve the agarose gel and denature enzymes. The DNA fragments in the chaotropic salt are then bound to the uniquely designed matrix of glass-fiber in the spin column in the optimized salt concentration and pH provided by our buffer. Whereas unwanted impurities, such as salts, enzymes, primers unincorporated nucleotides, dyes, and ethidium bromide flow through the column and are easily and efficiently removed from reaction mixture. After washing step, the purified DNA fragments are eluted by low-salt Elution Buffer or water. The entire procedure does not require DNA phenol extraction and alcohol precipitation, and could be completed in 20 minutes.

Quick View

Format: Spin column
Sample: Up to 300 mg agarose gel slice: Up to 100 µl PCR product or other enzymatic reaction
Operation: Centrifuge / vacuum manifold
DNA size: 50 bp ~ 10 kb Operation time: 20 minutes for gel extraction: 15 minutes for PCR clean up
Expected recovery : 75-85 % for gel extraction: 80-90 % for PCR clean up
Application: DNA Sequencing; Ligation; PCR;Restriction Enzyme Digestion; DNA Labeling

Cat Nº

ATP™ Gel/PCR DNA Fragment Extraction Kitt	100/300 prep	TR-BA1-0011 TR-BA1-0012
ATP™ Fragment DNA Binding Column	50 pc	TR-BA1-0017



ATP™ Genomic DNA Mini Kit (Blood/Culture Cell/Bacteria)

Description

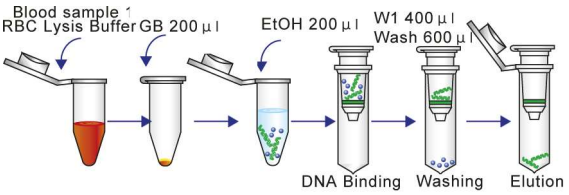
ATP™ Genomic DNA Mini Kit (Blood/Cultured Cell/Bacteria) provide a fast and economical method for purification of total DNA (including genomic, mitochondrial and viral DNA) from whole blood, plasma, serum, buffy coat, other body fluids, lymphocytes, bacterial and cultured cells. In this procedure, RBC Lysis Buffer is used to remove non-nucleated red blood cells and reduce hemoglobin contamination. The method use a chaotropic salt, guanidine hydrochloride, to lyse cells and degrade protein, than DNA in chaotropic salt is bond to glass-fiber matrix of column. After washing off the contaminants, the purified genomic DNA is eluted by low-salt Elution Buffer or water. The entire procedure can be completed in 40 minutes without phenol/ chloroform extraction and alcohol precipitation. Average yield are 6 µg of DNA from 200 µl of human whole blood and up to 50 µg of DNA from 200 µl of buffy coat, 5 x 106 lymphocyte cells, or cultured cells. Purified DNA with
approximate 20-30 kb is suitable for PCR or ther enzyme reaction.

Quick View

Format : Spin column
Sample: Up to 300 µl of whole blood Up to 107; animal cultured cells Up to 108; bacterial cultured cells Up to 107 yeast
Operation: Centrifuge / vacuum manifold
Operation time: 20~30 minutes
Application: PCR; Real-Time PCR; Southern blotting; AFLP; PADP/ AFLP

CAT N°

ATP™ Genomic DNA Mini Kit (Blood/Cell/ Bact)	100/300 preps	TR-BA1-0018 TR-BA1-0019
ATP™ Genomic DNA Binding Column	50 pc	TR-BA1-0029



ATP™ Genomic DNA Maxi Kit (Blood/Cell Culture)

Description

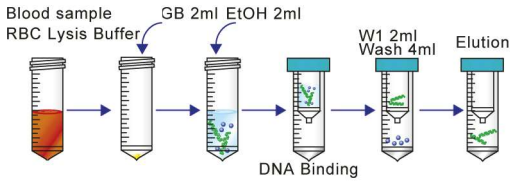
ATP™ Genomic DNA Maxi Kit (Blood/Cultured Cell) provide a fast and economical method for purification of total DNA (including genomic, mitochondrial and viral DNA) from whole blood, plasma, serum, buffy coat, other body fluids, lymphocytes, bacterial and cultured cells. In AGBM25, RBC Lysis Buffer is used to remove non-nucleated red blood cells and reduce hemoglobin contamination. In AGDM25, Proteinase K is the optimal enzyme to cell lysis for frozen blood. The method use a chaotropic salt, guanidine hydrochloride to lyse cells and degrade protein, than DNA in chaotropic salt is bond to glass-fiber matrix of column. After washing off the contaminants, the purified genomic DNA is eluted by low-salt elution buffer or water. The entire procedure can be completed without phenol/chloroform extraction and alcohol precipitation. Average yields of AGBM25/ AGDM25 are up to 140 µg of DNA from 4/10 ml of fresh/frozen blood. Purified DNA with approximate 20-30 kb is suitable for PCR or other enzyme reaction.

Quick View

Format: Maxi Spin column
Sample: Up to 4 ml of fresh blood for AGBM25
Up to 10 ml of frozen blood for AGDM25
Operation: Centrifuge / vacuum manifold
Application: PCR: Real-Time PCR: Southern Blotting: AFLP: PADP/ AFLP

CAT N°

ATP™ Genomic Maxi Kit (Fresh Blood)	25 preps	TR-BA1-0023
ATP™ Genomic Maxi Kit (Frozen Blood)	25 preps	TR-BA1-0024



ATP™ Genomic DNA Mini Kit (Tissue)

Description

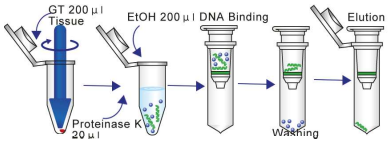
ATP™ RNA Mini Kit (Blood/Culture cell) is specially designed for purification of total RNA from fresh whole human blood and cultured cells. This method uses detergents and a chaotropic salt to lyse cells and inactivate RNase, and then RNA in chaotropic salt is bonded to the glass fiber matrix of the column. After washing off the contaminants, the purified RNA is eluted by RNase-free water. The entire procedure can be completed in 20 minutes and the purified RNA is ready for RT-PCR, Northern blotting, primer extension and cDNA library construction.

Quick View

Format: Spin column
Sample: Up to 20 mg of tissue
Operation: Centrifuge / vacuum manifold
Yield: Up to 50 µg
Elution volume: 50~200 µl
Application: PCR;Real-Time PCR; Southern blotting; AFLP; PADP/ AFLP

CAT Nº

ATP™ Genomic DNA Mini Kit (Tissue)	50/300 preps	TR-BA1-0020 TR-BA1-0021



ATP™ Genomic DNA Mini Kit (Plant)

Description

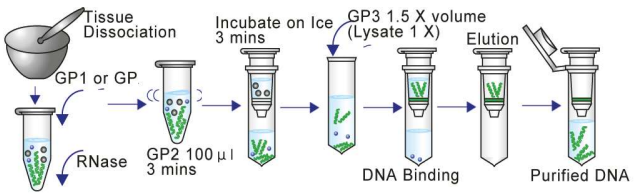
ATP™ Plant Genomic DNA Mini Kit provides a fast and simple method to isolate total DNA (genomic DNA, mitochondrial and chloroplast) from plant tissue and cells. In the process, sample is destroyed by grinding in liquid nitrogen and lysis buffer incubation. The Lysate is treated with RNase A to degrade RNA and filtrated by filter column to remove cell debris and salt precipitations. In the presence of binding buffer with chaotropic salt, the genomic DNA in the lysate binds to glass fiber matrix in the spin column. The contaminants are washed by wash buffer containing ethanol and finally, the purified genomic DNA is eluted by low-salt elution buffer or water. The protocol does not require DNA phenol extraction and alcohol precipitation. The entire procedure can be completed in 60 minutes.

Quick View

Format: Spin column
Sample: 100 mg plant tissue
Operation: Centrifuge / vacuum manifold
Yield: 5-30µg
Elution volume: 50~200 µl
Application : PCR; Real-Time PCR; Southern Blotting; AFLP; PADP/ AFLP

CAT Nº

ATP™ Genomic Mini Kit (plant)	50 preps	TR-BA1-0022



ATP™ Genomic DNA Maxi Kit (Plant)

Description

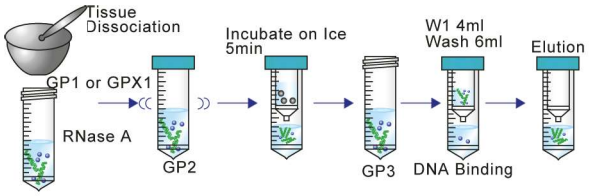
ATP™ Plant Genomic DNA Mini Kit provides a fast and simple method to isolate total DNA (genomic DNA, mitochondrial and chloroplast) from plant tissue and cells. In the process, sample is destroyed by grinding in liquid nitrogen and lysis buffer incubation. The Lysate is treated with RNase A to degrade RNA and filtrated by filter column to remove cell debris and salt precipitations. In the presence of binding buffer with chaotropic salt, the genomic DNA in the lysate binds to glass fiber matrix in the spin column. The contaminants are washed by wash buffer containing ethanol and finally, the purified genomic DNA is eluted by low-salt elution buffer or water. The protocol does not require DNA phenol extraction and alcohol precipitation. The entire procedure can be completed in 60 minutes.

Quick View

Format: Spin columns
Sample: 1 g plant tissue
Operation: Centrifuge / vacuum manifold
Operation time: < 60 minutes
Yield: Up to 500 µg
Application: PCR; Real-Time PCR; Southern Blotting; AFLP; PADP/ AFLP

CAT Nº

ATP™ Plant Genomic DNA Maxi Kit	25 preps	TR-BA1-0025



ATP™ Total RNA Mini Kit (Blood/Culture Cell/Bacteria)

Description

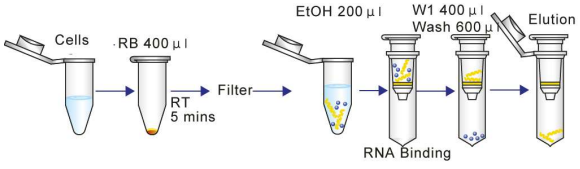
ATP™ RNA Mini Kit (Blood/Culture cell) is specially designed for purification of total DNA (including: genomic, mitochondrial and viral DNA) from fresh whole human blood, plasma, serum, buffy coat, other body fluids, lymphoctes, bacteria and cultured cells. This method uses detergents and a chaotropic salt to lyse cells and inactivate RNase, and then RNA in chaotropic salt is bonded to the glass fiber matrix of the column. After washing off the contaminants, the purified RNA is eluted by RNase-free water.

Quick View

Format: Spin columns
Sample: Up to 300 µl of whole blood; Up to 106; animal cultured cells Up to 108
bacterial cultured cells
Operation: Centrifuge / vacuum manifold
Operation time : 20 minutes
Yield: Up to 30 µg
Application: RT-PCR: Real-time PCR: Notthern blotting: mRNA selection: cDNA synthesis Primer extension

CAT Nº

ATP™ RNA Mini Kit (Blood/Culture cel/Bact)	50 preps	TR-BA1-0030
ATP™ RNA Binding Column	50 pc	TR-BA1-0038



ATP™ Total RNA Maxi Kit (Blood/Culture cell/Bacteria/ Tissue)

Description

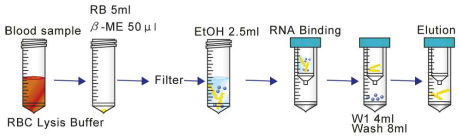
ATP™ Total RNA Mini Kit (Tissue) is specially designed for purification of total RNA from a variety of animal tissues or cells. The provided micropestle can efficiently homogenize tissue samples in the microcentrifuge tube. The method uses detergent and a chaotropic salt to lyse cells and inactivate RNase. Then RNA in the chaotropic salt is bonded to the glass fiber matrix of the column. After washing off the contaminants, the purified RNA is eluted by RNase-free water. The entire procedure can be completed in 20 minutes and the purified RNA is ready for RT-PCR, Northern blotting, primer extension and cDNA library construction.

Quick View

Format: Maxi Spin column
Sample: 100-200 mg animal tissue 107-108 cultured cell; 5 ml blood sample
Operation: Centrifuge
Operation time: 60 minutes
Elution volume: 500 µl
Yield: 500 µg
Application: RT-PCR; Real-Time PCR; Nothern Blotting; mRNA Selection; cDNA Synthesis; Primer Extension

CAT Nº

ATP™ RNA Maxi Kit (Blood/Culture cel/Bact)	10 preps	TR-BA1-0036



ATP™ Total RNA Mini Kit (Tissue)

Description

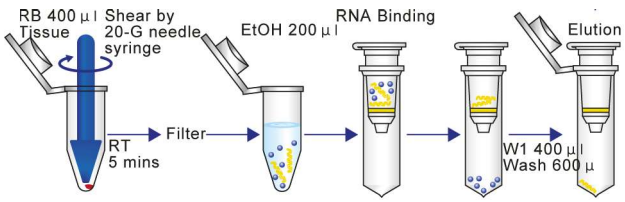
ATP™ Total RNA Mini Kit (Tissue) is specially designed for purification of total RNA from a variety of animal tissues or cells. The provided micropestle can efficiently homogenize tissue samples in the microcentrifuge tube. The method uses detergent and a chaotropic salt to lyse cells and inactivate RNase. Then RNA in the chaotropic salt is bonded to the glass fiber matrix of the column. After washing off the contaminants, the purified RNA is eluted by RNase-free water. The entire procedure can be completed in 20 minutes and the purified RNA is ready for RT-PCR, Northern blotting, primer extension and cDNA library construction.

Quick View

Format: Spin column
Sample: Up to 25 mg of tissue
Operation: Centrifuge / vacuum manifold
Recovry: Up to 25 µg
Elution volume: 50 µl
Application: RT-PCR; Real-time PCR; Notthern blotting; mRNA selection; cDNA synthesis; Primer extension

CAT Nº

ATP™ RNA Mini Kit (Tissue)	50 preps	TR-BA1-0031



ATP™ Total RNA Mini Kit (Plant)

Description

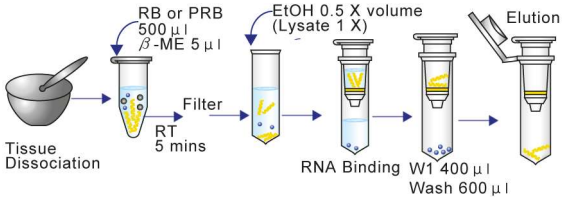
ATP™ Plant Total RNA Mini Kit provides a fast and simple method to isolate total RNA from plant tissue and cells. In the process, sample is first ground in liquid nitrogen and filtrated by filter column to remove cell debris. In the presence of binding buffer with chaotropic salt, the total RNA in the lysate binds to glass fiber matrix in the spin column. The optional DNase treatments can remove DNA residues and the contaminants are washed by wash buffer containing ethanol. Finally, the purified total RNA is eluted by RNase-free water. The protocol does not require phenol extraction and alcohol precipitation.

Quick View

Format: Spin column
Sample: 50 mg plant tissue
Operation: Centrifuge / vacuum manifold
Operation time: 60 minutes
Yield: 5-30 µg
Elution volume: 50 µl
Application :RT-PCR; Real-Time PCR; Nothern Blotting; mRNA Selection; cDNA Synthesis; Primer Extension

CAT N°

ATP™ RNA Mini Kit (PLant)	50 preps	TR-BA1-0032



ATP™ Total RNA Maxi Kit (Plant)

Description

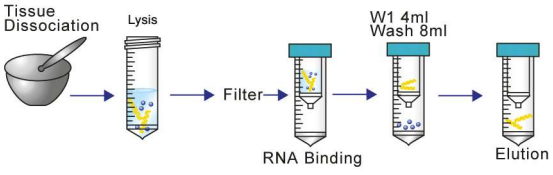
ATP™ Plant Total RNA Mini Kit provides a fast and simple method to isolate total RNA from plant tissue and cells. In the process, sample is first ground in liquid nitrogen and filtrated by filter column to remove cell debris. In the presence of binding buffer with chaotropic salt, the total RNA in the lysate binds to glass fiber matrix in the spin column. The optional DNase treatments can remove DNA residues and the contaminants are washed with an ethanol contained wash buffer. Finally, the purified total RNA is eluted by RNase-free water. The protocol does not require phenol extraction and alcohol precipitation.

Quick View

Format : Spin column
Sample:500 mg plant tissue
Operation : Centrifuge / vacuum manifold
Operation time:60 minutes
Yield :50-300 µg
Elution volume:50 µl Application ,RT-PCR, Real-Time PCR, Notthern blotting, mRNA selection, cDNA synthesis, Primer extension

CAT N°

ATP™ Plant RNA Maxi Kit	10 preps	TR-BA1-0037



ATP™ Viral Nucleic Acid Extraction Kit

Description

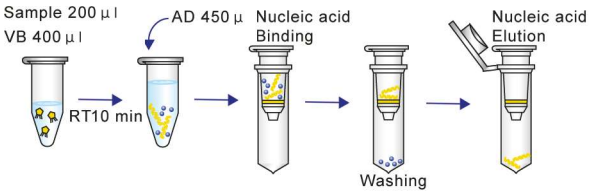
ATP™ Viral Nucleic Acid Extraction Kit is specially designed for high-throughput purification of viral RNA or DNA from cell-free samples as serum, plasma, body fluids, and the supernatant of viral infected cell culture. With the extraction method, DNA/RNA viruses are lysed quickly and efficiently by lysis buffer which is a highly concentrated solution of chaotropic salt. Nucleic acid in chaotropic salt and methanol are bond to the glass-fiber matrix of viral DNA/RNA Binding Column. Contaminations like salts, metabolites and soluble macromolecular components are removed in Washing Steps. The nucleic acids can be eluted by low-salt buffer or water and are ready-to-use in subsequent reactions. The detection limit for certain viruses depends on the sensitivity of individual PCR or RT-PCR assay. This protocol is recommended for parallel purification of viral RNA including HCV, HIV, HTLV and viral DNA including HBV and CMV.

Quick View

Format: Spin column
Sample: 200 µl of serum, plasma, body fluid and cell culture supernatant
Operation: Centrifuge / vacuum manifold
Operation time: 40 minutes
Elution volume: 50 µl

CAT Nº

ATP™ Viral Nucleic Acid Mini Kit	50 preps	TR-BA1-0033



Related Products CAT Nº

ATP™ 96-Well Plasmid mini kit	4/10 plates	TR-BA1-0006 // TR-BA1-0007
ATP™ Plasmid Mini Binding Column	50 pc	TR-BA1-0008
ATP™ Plasmid Midi Resin Column	10 pc	TR-BA1-0009
ATP™ Plasmid Maxi Resin Column	10 pc	TR-BA1-0010
ATP™ 96-Well Gel/PCR DNA Extraction Kit	4/10 plates	TR-BA1-0013 // TR-BA1-0014
ATP™ 96-Well SEQ Dye Clean Up Kit	4/10 plates	TR-BA1-0015 // TR-BA1-0016
ATP™ Fragment DNA Binding Column	50 pc	TR-BA1-0017
ATP™ 96-Well Genomic DNA Kit	4/10 plates	TR-BA1-0026 // TR-BA1-0027
ATP™ Reagent Genomic DNA Kit	for 100 ml Blood	TR-BA1-0028
ATP™ Genomic DNA Binding Column	50 pcs	TR-BA1-0029
ATP™ 96-Well Viral Nucleic Acid Kit	4/10 plates	TR-BA1-0034 // TR-BA1-0035
ATP™ RNA Binding Column	50 pcs	TR-BA1-0038
Proteinase K	11 mg/kit	TR-BA1-0039
RNase A	0.2 ml (50 mg/ml)	TR-BA1-0040
RNase A	1.5 ml (50 mg/ml)	TR-BA1-0041