

Prepare High Purity, High Yield Nucleic Acid with AccuPrep® Kit!

AccuPrep[®] series are Bioneer's most popular nucleic acid extraction product which uses a single spin column or 96-well plate with glass micro fiber filters. Bioneer provides various products for high-purity and high-yield genomic DNA, plasmid DNA, RNA or fragment DNA.

Selection Chart

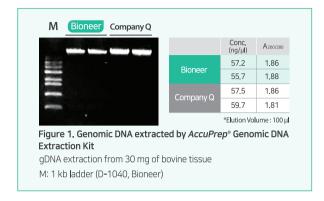
Nucleic Acid	Sample	Product Type	Product	Yie l d	Experiment Time
	Cultured animal cells Lymphocytes Mammalian tissue Whole human blood and bacterial cultures	Spin Column	AccuPrep® Genomic DNA Extraction Kit	Up to 20 μg	< 30 min
Genomic	Plant tissues	Spin Column	AccuPrep® Plant Genomic DNA Extraction Kit	Variable*	< 50 min
DNA	Fresh or frozen stool Samples with large amounts of PCR inhibitors	Spin Column	AccuPrep® Stool DNA Extraction Kit	2 - 5 µg	< 50 min
	Cultured animal cells Lymphocytes Mammalian tissue Whole human blood and bacterial cultures	96-Well Plate	AccuPrep® Genomic DNA Extraction Kit for 96 well vacuum Block	Variable*	< 40 min
		Spin Column	AccuPrep® Nano-Plus Plasmid Mini Extraction Kit	Up to 30 µg	< 10 min
Plasmid DNA	Bacterial cultures	Spin Column	<i>AccuPrep®</i> Nano-Plus Plasmid Midi	Up to 75 - 100 µg	< 40 min
		Pump	Extraction Kit		< 30 min
		Spin Column	AccuPrep® Nano-Plus Plasmid Maxi	Up to 300 - 500 µg	< 60 min
		Pump	Extraction Kit		< 45 min
		Spin Column	AccuPrep® Plasmid Mini Extraction Kit	Up to 20 µg	< 20 min
		96-Well Plate	AccuPrep® Plasmid Mini Extraction Kit for 96 well vacuum Block	Up to 10 µg	< 40 min
Fragment	PCR products DNA fragments in agarose gel slice Labeled, modified or digested DNA	Spin Column	AccuPrep® PCR/Gel DNA Purification Kit	70 - 90% recovery	< 30 min
DNA	PCR products Labeled, modified or digested DNA	96-Well Plate	AccuPrep® PCR Purification Kit for 96 well vacuum Block	70 - 90% recovery	< 25 min
RNA	Cultured animal cells Mammalian tissue Plant tissue	Spin Column	AccuPrep® Universal RNA Extraction Kit	Variable*	< 20 min
	Bacteria culture (gram-negative, gram-positive)	Spin Column	AccuPrep® Bacterial RNA Extraction Kit	Variable*	< 40 min
	Viral RNA in body fluid (blood, plasma, serum and urine)	Spin Column	AccuPrep® Viral RNA Extraction Kit	Variable*	< 30 min

^{*} Yield will vary according to sample type.

DNA Extraction

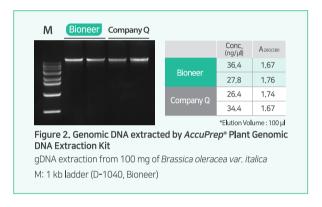
Genomic DNA Extraction Kit

AccuPrep® Genomic DNA Extraction Kit can rapidly and conveniently extract genomic DNA from blood, lymphocyte, buffy coat, animal tissue and cultured cell. This process does not require phenol/chloroform extraction, alcohol precipitation, nor other burdensome steps. The isolated DNA is ready to use in various applications.



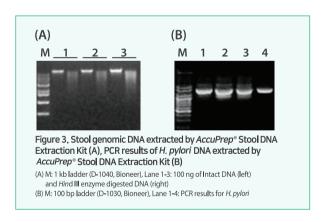
Plant Genomic DNA Extraction Kit

AccuPrep® Plant Genomic DNA Extraction Kit extracts DNA from plant samples including leaf and seeds. The kit includes all reagents required for extraction, and uses a column type extraction system to allow rapid, convenient extraction of higher-quality DNA.



Stool DNA Extraction Kit

AccuPrep® Stool DNA Extraction Kit extracts DNA from stool or other samples containing large amounts of material that can inhibit PCR. Using the spin-column method, contaminants and enzyme inhibitors such as heparin, bilirubin bile salts are eliminated and high-purity DNA is obtained.

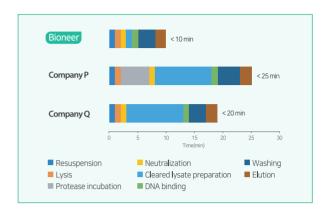


Specification & Application

Product	Genomic DNA Kit			Plant Genomic DNA Kit			Stool DNA Kit	
Sample	Whole blood	Buffy coat	Cultured cells	Mammalian tissue	Soybean	Maize	Potato	Stool
Expected yield	3-6 µg	15-20 µg	15-20 µg	10-15 µg	2-5 µg	1-4 µg	1-4 µg	2-5 µg
Prep. time		< 3	0 min			< 50 min		< 50 min
Application	Gene cloning, PCR, Real-time PCR, Southern blotting, and SNP genotyping		typing					

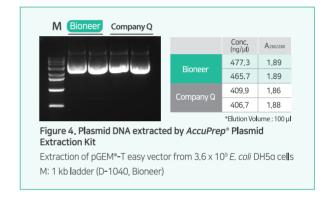
Nano-Plus Plasmid Extraction Kit

AccuPrep® Nano-Plus Plasmid Extraction Kit extracts high quality plasmid DNA from cultured bacterial cells. The kit reduces plasmid DNA prep time from the usual 30 minutes to 10 minutes. The overall principle utilizes a modified alkaline lysis protocol that is enhanced by patented Bioneer's Nano-Technology.



Plasmid Mini Extraction Kit

AccuPrep® Plasmid Extraction Kit extracts high-purity plasmid DNA rapidly from bacterial cultures such as *E. coli*. Extraction is carried out in three simple steps of binding/washing/elution. Dangerous organic solvents are avoided for the safe and convenient extraction of plasmid DNA.



PCR/Gel DNA Purification Kit

AccuPrep® PCR/Gel Purification Kit purifies DNA fragment from PCR or other enzymatic products as well as agarose gel. 50 bp-20 kb size of fragment DNA can be purified with 70-90% recovery, and common 20-40 mer short oligonucleotides are easily removed.

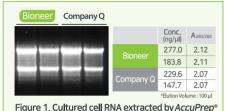
Specification & Application

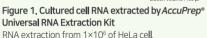
Product	Nano-Plus Plasmid Extraction Kit			Plasmid Mini	DCD/Col DNA Durification Vit	
Product	Mini	Midi	Maxi	Extraction Kit	PCR/Gel DNA Purification Kit	
Expected yield	Up to 30 µg	Up to 75-100 μg	Up to 300-500 µg	Up to 20 µg	Variable	
Prep. time	< 10 min	< 40 min	< 60 min	< 20 min	< 30 min	
Application	Sub-cloning, sequencing, transformation, transfection, and in-vitro transcription/translation				Sub-cloning, sequencing, labeling, and DNA concentration	

RNA Extraction

Universal RNA Extraction Kit

AccuPrep® Universal RNA Extraction Kit extracts high-quality RNA from various type of samples such as cultured animal cell, animal tissue and plant tissue by common extraction kit.





DNase was not treated.



Figure 2. Plant RNA extracted by *AccuPrep*® Universal RNA Extraction Kit

RNA extraction from 100 mg of *Brassica oleracea var. italica*. DNase was not treated.

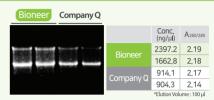


Figure 3. Animal tissue RNA extracted by *AccuPrep*® Universal RNA Extraction Kit

RNA extraction from 20 mg of *Mus musculus* liver. DNase was not treated.

Viral RNA Extraction Kit

AccuPrep® Viral RNA Extraction Kit extracts viral RNA from cell-free samples as serum, plasma, CSF, urine, etc. This kit can be used for extracting RNA from a variety of RNA virus, but not all viruses can be utilized as a source. Also, as it is difficult to extract only RNA from samples containing both DNA and RNA, a cell-free sample must be used in order to prevent DNA contamination.

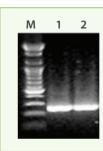


Figure 4. The RT-PCR results of HCV-specific RNA obtained from HCV-positive serum by using *AccuPrep*® Viral RNA Extraction Kit

M: 100 bp ladder (D-1030, Bioneer), Lane1, 2: 216 bp HCV product

Bacterial RNA Extraction Kit

AccuPrep® Bacterial RNA Extraction Kit enables rapid and convenient extraction of RNA from gram-positive and gram-negative bacteria. Proteins and other contaminants are effectively removed through silica-based spin columns and optimized buffers. This process is ideal since no organic solvents are used. Using AccuPrep® Bacterial RNA Extraction Kit, you can extract stable RNA without degradation.



Figure 5. Gram-negative bacterial RNA extraction using *AccuPrep®* Bacterial RNA Extraction Kit RNA extraction from 1×10⁸

cells of *E.coli*.

DNase was not treated.

Bioneer Compa	ny Q		
THE RESIDENCE AND ADDRESS.		Conc. (ng/µl)	A _{260/280}
	Bioneer	58.1	2.07
	Bioricci	62.8	2.06
	Company Q	48.4	2.03
DOMESTIC STATE STATE OF	Company Q	51.6	2.03

Figure 6. Gram-positive bacteria RNA extraction using *AccuPrep*® Bacterial RNA Extraction Kit

RNA extraction from 1×10⁸ cells of *Bacillus Subtillis*.
DNase was not treated.

Specification & Application

Product	Universal RNA Extraction Kit	Bacterial RNA Extraction Kit	Viral RNA Extraction Kit	
Sample	Cultured animal cells, mammalian tissue, plant tissue	Bacteria culture (gram-negative, gram-positive)	Viral RNA in body fluid (blood, plasma, serum and urine)	
Expected yield	Variable	Variab l e	Variable	
Prep. time	< 20 min	< 40 min	< 30 min	
Application	RT-PCR, RT-qPCR, cDNA synthesis, nor and Ri	RT-PCR, RT-qPCR, cDNA synthesis, poly A+ RNA selection, northern/dot/slot blot analysis, and pathogen detection		

Ordering Information

Cat. no.	Products
K-3111/K-3112	AccuPrep® Nano-Plus Plasmid Mini Extraction Kit, 200 reactions/50 reactions
K-3122	AccuPrep® Nano-Plus Plasmid Midi Extraction Kit, 25 reactions
K-3131/K-3132	AccuPrep® Nano-Plus Plasmid Maxi Extraction Kit, 25 reactions/10 reactions
K-3030/K-3030-1	AccuPrep® Plasmid Mini Extraction Kit, 200 reactions/50 reactions
K-3032	AccuPrep® Genomic DNA Extraction Kit, 100 reactions
K-3031	AccuPrep® Plant Genomic DNA Extraction Kit, 100 reactions
K-3036	AccuPrep® Stool DNA Extraction Kit, 100 reactions
K-3140/K-3141	AccuPrep® Universal RNA Extraction Kit, 100 reactions/50 reactions
K-3142/K-3143	AccuPrep® Bacterial RNA Extraction Kit, 100 reactions/50 reactions
K-3033	AccuPrep® Viral RNA Extraction Kit, 100 reactions
K-3037/K-3038	AccuPrep® PCR/Gel DNA Purification Kit, 200 reactions/50 reactions
K-3030-2	AccuPrep® Plasmid DNA Extraction Kit for 96 well vacuum Block, 96-well plate x 2
K-3032-2	AccuPrep® Genomic DNA Extraction Kit for 96 well vacuum Block, 96-well plate x 2
K-3034-2	AccuPrep® PCR Purification Kit for 96 well vacuum Block, 96-well plate x 2

Cat. no.	Related Products
A-9030	BioVac™ 96 Vacuum Manifold

Contact Us



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