

AccuPrep® + PrepMate™ Series

A family of incredibly versatile DNA/RNA purification products



Bioneer's value priced nucleic acid purification kits are classified into three distinct series of products.

AccuPrep® series

The *AccuPrep* kits use a spin-column and chaotropic salts to bind nucleic acids to an activated glass filter with exceptionally high binding capacity. Contaminants are removed during subsequent washing steps and high-purity nucleic acid is eluted with a low-salt buffer. *AccuPrep's* simple protocols use no harmful organic solvents and require no ethanol precipitation.

Kits in the *AccuPrep* series include:

- *AccuPrep* Plasmid Extraction Kit
- *AccuPrep* Genomic DNA Extraction Kit
- *AccuPrep* GMO DNA Extraction Kit
- *AccuPrep* Stool DNA Extraction Kit
- *AccuPrep* Viral RNA Extraction Kit
- *AccuPrep* PCR Purification Kit
- *AccuPrep* Gel Purification Kit

AccuPrep® 96-well plate series

Based on the simple *AccuPrep* protocol, the *AccuPrep* 96-well plate series of products are designed to isolate high-purity nucleic acid from 96 up to 960 samples simultaneously using the BioVac™ 96 Vacuum Manifold. The extracted DNA can be used in subsequent applications without any additional purification.

Kits in the *AccuPrep* 96-well plate series include:

- *AccuPrep* Plasmid Extraction for BioVac 96 Vacuum Manifold
- *AccuPrep* Genomic DNA Extraction for BioVac 96 Vacuum Manifold
- *AccuPrep* PCR Purification for BioVac 96 Vacuum Manifold
- *AccuPrep* BioVac 96 Vacuum Manifold

PrepMate™ series

The *PrepMate* series are solution-based purification products that improve upon more traditional nucleic acid extraction methods for maximum speed and convenience. Each *PrepMate* product has an optimized buffer system for a specific type of nucleic acid and source. This results in maximum removal of contaminants and minimal loss of yield. *PrepMate* products offer a low-cost alternative to silica based purification systems.

Kits in the *PrepMate* series include:

- DNA *PrepMate* - II
- DNA *PrepMate* - M
- Viral RNA *PrepMate*
- Blood RNA *PrepMate*
- Tissue *PrepMate*

Features and Benefits

High nucleic acid purity

High yield

Competitive Pricing

Great for all downstream applications.

Activated silica with an exceptionally high binding capacity for *AccuPrep*. *PrepMate* minimizes loss with unique buffer systems.

Great value for your research dollar.

Choose the right kit for your needs

	Product	Product Type	Source	Yield	Experiment Time
DNA	AccuPrep® Plasmid DNA Extraction Kit	Spin column	Bacterial cultures	Up to 20 µg	< 30 minutes
	AccuPrep Plasmid DNA Extraction Kit (96 plate x 2)	96-well plate	Bacterial cultures	Up to 12 µg	< 40 minutes
	AccuPrep Genomic DNA Extraction Kit	Spin column	Cultured cells, lymphocytes, mammalian tissue, and whole human blood	Up to 20 µg	< 30 minutes
	AccuPrep Genomic DNA Extraction (96 plate x 2)	96-well plate	Cultured cells, lymphocytes, mammalian tissue, and whole human blood	Variable*	< 40 minutes
	AccuPrep GMO DNA Extraction Kit	Spin column	Agricultural products (beans, corn, rice, tofu, and bean sprouts)	20 - 40 µg*	< 50 minutes
	AccuPrep Stool DNA Extraction Kit	Spin column	Fresh or frozen stool and other samples with large amounts of PCR inhibitors	2 - 5 µg	< 50 minutes
	DNA PrepMate™ II	Solution based	Bacteria, PCR products, agarose gel fragments, and enzyme reaction mixtures	Variable*	≈ 40 minutes
	DNA PrepMate - M	Solution based	Sputum, CSF, urine, HBV, pleural fluid tissue, and M. tuberculosis complex	Variable*	≈ 40 minutes
RNA	AccuPrep Viral RNA Extraction Kit	Spin column	Serum, plasma, CSF, and urine	Variable*	< 20 minutes
	Viral RNA PrepMate	Solution based	Total RNA from RNA viruses such as HCV in tissue, serum, leucocytes, and cultured cells	Variable*	≈ 40 minutes
	Blood RNA PrepMate	Solution based	Blood, tissue, serum, leucocytes, and cultured cells	Variable*	≈ 1 hr
	Tissue RNA PrepMate	Solution based	Tissue, serum, leucocytes, and cultured cells	Variable*	≈ 1 hr
CLEAN UP	AccuPrep PCR Purification	Spin column	PCR products and labeled, modified, or digested DNA	> 90%	< 5 minutes
	AccuPrep Gel Purification	Spin column	DNA in agarose gels, PCR products, and enzyme reaction mixtures	> 70%	< 15 minutes
	AccuPrep PCR Purification (96 plate x 2)	96-well plate	PCR products and labeled, modified or digested DNA	70 - 95%	< 25 minutes

* Yield will vary according to sample type.

Featured Products

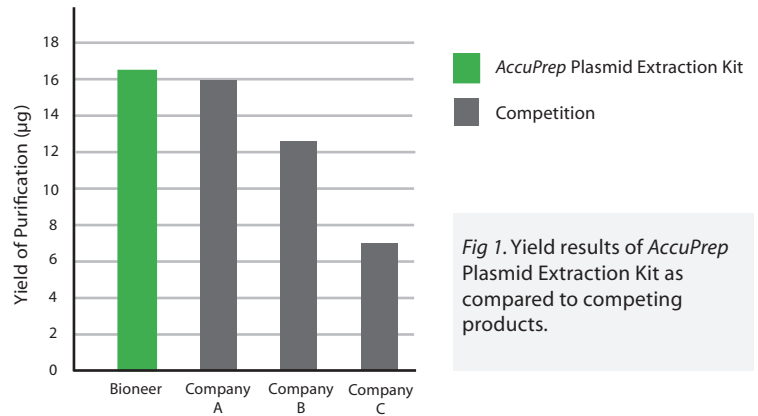
AccuPrep® Plasmid Extraction Kit

Extraction of high-purity plasmid DNA from bacterial cultures such as E. coli. A260/A280 ratio approximately 2.0 and QC'ed to be at least 1.8. Yields of up to 20 µg of DNA can be obtained per 4 ml of cultured cells.

Protocol < 30 minutes.

Applications

- PCR, cloning, sequencing, in-vitro transcription, and labeling



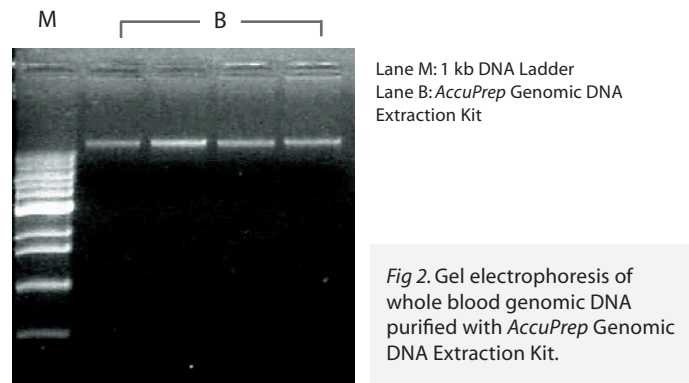
AccuPrep Genomic DNA Extraction Kit

Extraction of total genomic DNA from whole blood, lymphocytes, mammalian tissue and cultured cells. Average yield of 6 µg of total genomic DNA from 200 µl of whole human blood and up to 20 µg from 5 x 10⁶ lymphocytes, 25 - 50 mg mammalian tissue, or 10⁴ - 10⁸ cultured cells.

Protocol < 30 minutes.

Applications

- PCR, Southern Blotting, and forensic applications



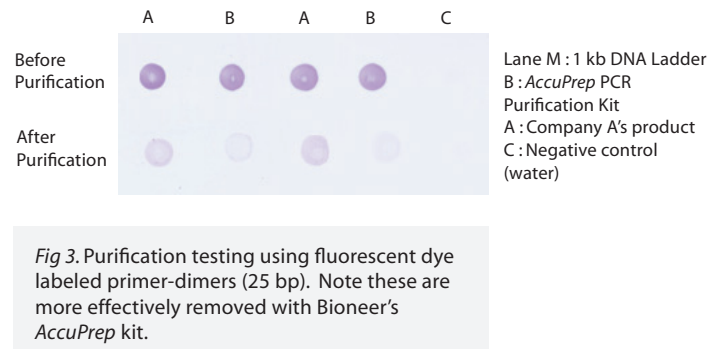
AccuPrep PCR Purification Kit

Rapid purification of DNA fragments (dsDNA and ssDNA) from PCR products and other enzymatic reactions. Purification of up to 10 µg of DNA fragments from PCR and other enzymatic products within 5 minutes. Yield > 90%. Size range is 100 bp - 10 kb, so common 20 - 40 mer oligonucleotides are easily removed.

Protocol < 30 minutes.

Applications

- Cloning and sequencing



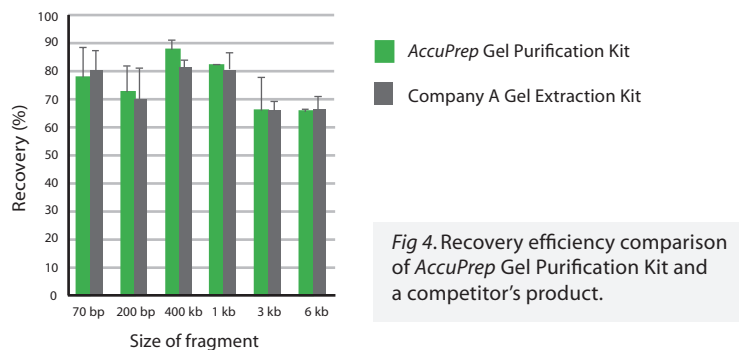
AccuPrep Gel Purification Kit

Rapid purification of DNA fragments or plasmid DNA from low-melting, TAE and TBE agarose gels, PCR products and enzymatic reaction mixtures. Fragments 70 bp - 10 kb can be isolated in less than 15 mins with recovery efficiencies greater than 70%.

Protocol < 30 minutes.

Applications

- Cloning and sequencing





High throughput options

AccuPrep Plasmid Extraction Kit (96-well plate x 2)

High throughput extraction of plasmid DNA from 96 different bacterial culture samples. Average A260/A280 ratio greater than 1.7. Maximum yield of 12 µg.

Protocol < 40 minutes.

AccuPrep PCR Purification Kit (96-well plate x 2)

High throughput purification kit that can purify product from 96 PCR reactions. Recovery efficiencies up to 95%.

Protocol < 25 minutes.

AccuPrep Genomic DNA Extraction Kit (96-well plate x 2)

Simultaneous extraction of genomic DNA from 96 samples of cultured cells, whole blood, buffy coat, lymphocytes, plasma, serum, and other biological fluids. Yield is sample dependent.

Protocol < 40 minutes.

BioVac™ 96 Vacuum Manifold

Designed for use with the Bioneer AccuPrep 96-well plate series—handles 96 samples simultaneously for high throughput extraction.

Ordering Information

Product Description	Reactions	Cat. No.	Price
AccuPrep Plasmid Extraction Kit	200	K-3030	\$175.00
AccuPrep Genomic DNA Extraction Kit	100	K-3032	168.00
AccuPrep GMO DNA Extraction Kit	100	K-3031	238.00
AccuPrep Stool DNA Extraction Kit	100	K-3036	216.00
AccuPrep PCR Purification Kit	200	K-3034	206.00
AccuPrep Gel Purification Kit	200	K-3035	256.00
DNA PrepMate - II	150	K-3011	176.00
DNA PrepMate - M	100	K-3020	181.00
AccuPrep Plasmid Extraction Kit	96-well plate x 2	K-3030-2	250.00
AccuPrep Genomic DNA Extraction Kit	96-well plate x 2	K-3032-2	295.00
AccuPrep Viral RNA Extraction Kit	100	K-3033	285.00
Viral RNA PrepMate	100	K-3060	210.00
Blood RNA PrepMate	100	K-3070	265.00
Tissue RNA PrepMate	100	K-3080	210.00
AccuPrep PCR Purification Kit	96-well plate x 2	K-3034-2	180.00
BioVac 96 Vacuum Manifold	-	A-9030	530.00

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