

GENOMIC DNA PURIFICATION

Extract-N-Amp™ Blood PCR Kits

From whole blood to PCR in under 8 minutes.

The Extract-N-Amp™ Blood PCR Kits contain all of the reagents necessary to rapidly extract host genomic DNA from whole blood and amplify targets of interest by PCR (Fig. 1). This novel extraction system eliminates the need for any type of purification, organic extraction, centrifugation, heating, filtration or alcohol precipitation. The kit also includes a PCR Ready mix, especially formulated for amplification directly from the extract. This formulation uses an antibody based Hot Start, for specific amplification. The PCR master mix comes in two formulations: Extract-N-Amp™ Blood PCR mix and REExtract-N-Amp™ Blood PCR mix. The REExtract-N-Amp™ Blood PCR kit contains a tracking dye that allows for convenient direct loading of PCR reactions onto agarose gels for analysis.

Genomic DNA is extracted from 10 µl of whole blood by simply adding the Extraction Solution and incubating for 5 minutes at room temperature. The Neutralization Solution is added to the extract to counteract inhibitory substances prior to PCR. A portion of the DNA extract is then added to the specially formulated PCR mix.

Features and Benefits

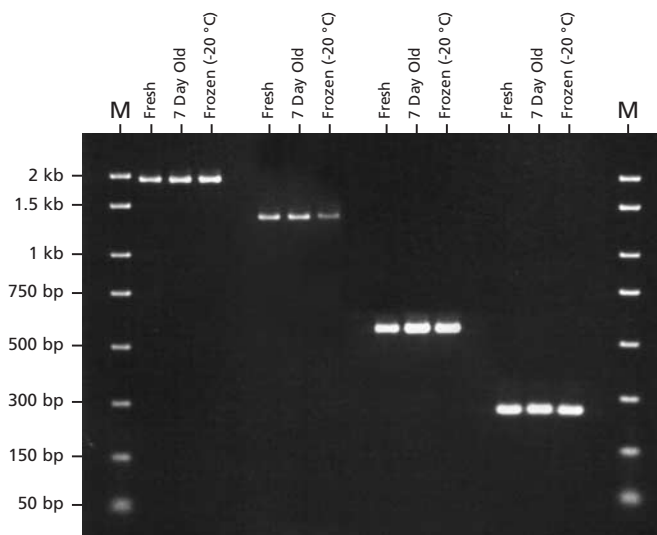
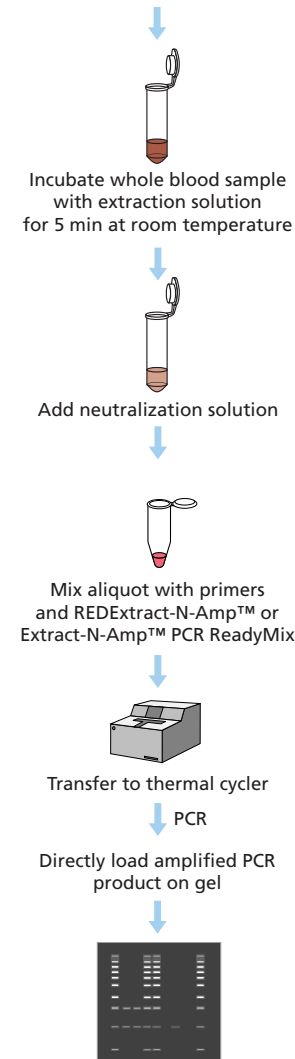
- Efficient 8 minute prep allows greater speed and throughput
- No need for any type of purification, organic extraction, centrifugation or alcohol precipitation
- Simple, 3 step procedure with no special equipment required
- Hot Start antibody included for highly specific PCR amplification of genomic DNA
- Compatible with multiple format (single tube, or 96-well)
- Can be used with whole blood or blood cards
- Extract stable at 4 °C for at least 6 months (Fig. 2)

Storage: -20-0 °C

Shipped in wet ice

R: 34 S: 26-27-36/37/39

Overview of Extract-N-Amp™ Blood PCR Kit Procedure



PCR analysis of genomic DNA isolated from blood using Sigma's Extract-N-Amp™ Blood PCR Kit.

Figure 1. Extract-N-Amp™ Blood PCR Kit used to isolate genomic DNA from fresh, 7 day old, & frozen blood. DNA was extracted and neutralized from 10 µl of whole blood in 5 minutes at room temperature using the REExtract-N-Amp™ Blood PCR kit. The PCR products were then generated using the specially formulated Hot Start PCR mix included in the kit. PCR products generated are 1.8 kb for carnitine palmitoyltransferase II, 1.3 kb for a mitochondrial DNA control region, 547 bp for human surfactant protein B, and 320 bp for the 5' untranslated region of human major histocompatibility complex class II.

GENOMIC DNA PURIFICATION

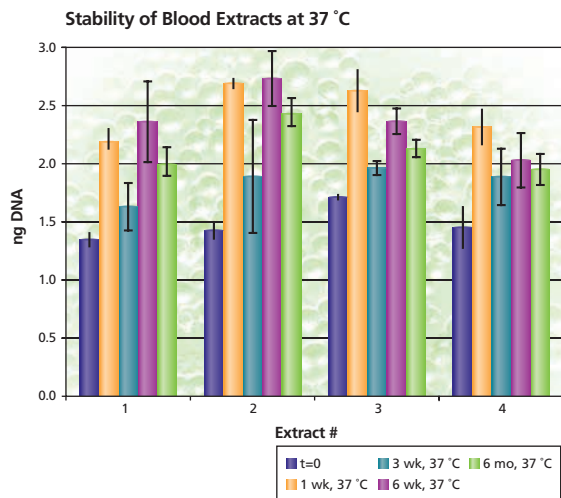


Figure 2. Stability of Extract-N-Amp™ Blood Extracts. Blood was drawn from 2 human volunteers into vacutainer tubes containing EDTA. Extractions were performed in duplicate providing 4 samples total. Half the extracts were stored at 4 °C (recommended storage conditions) and the other half at 37 °C (accelerated storage). Samples were removed at various time intervals for testing. Stability was determined by monitoring yield from quantitative PCR using an ABI 7700 instrument. The DNA standards used for the quantitative PCR were generated from the same blood draw as the test samples, purified using the GenElute Blood Genomic DNA Kit (NA2000) and stored as single aliquots at -20 °C. The PCR products were generated using primers for a 547 bp product from human surfactant protein B (SPB; Lin & Floros, 2000, BioTechniques, 29: 460-466). The results clearly show no loss of amplification of the SPB PCR product even after storage at 37 °C for 6 months. Similar results were obtained with storage at 4 °C.

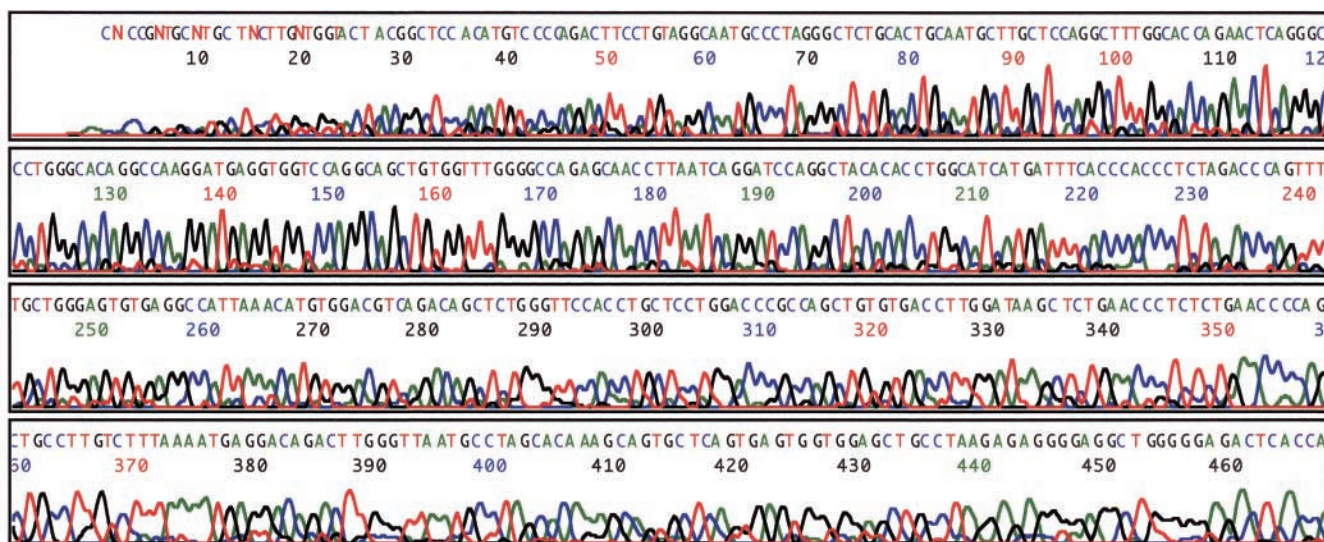


Figure 3. Direct sequence from PCR products generated using the Extract-N-Amp™ Blood Kit. A 547 bp product for human surfactant protein B was generated using the Extract-N-Amp Blood PCR kit. The product was sequenced directly using BigDye™ terminator chemistry. Sequencing reactions were resolved on an ABI 3100.

Note: Some PCR products require further clean-up prior to sequencing. The GenElute™ PCR Clean-Up Kit (NA1020) is recommended.

ORDERING INFORMATION

Product	Product Description	Extractions	Amplifications
XNABS	REExtract-N-Amp™ Blood PCR Kit (contains REDTaq)	10	10
XNAB	REExtract-N-Amp™ Blood PCR Kit (contains REDTaq)	100	100
XNABE	REExtract-N-Amp™ Blood PCR Kit (contains REDTaq)	100	500
XNABR	REExtract-N-Amp™ Blood PCR Kit (contains REDTaq)	1000	1000
XNABRE	REExtract-N-Amp™ Blood PCR Kit (contains REDTaq)	1000	5000
XNAB2	Extract-N-Amp™ Blood PCR Kits	100	100
XNAB2E	Extract-N-Amp™ Blood PCR Kits	100	500
XNAB2R	Extract-N-Amp™ Blood PCR Kits	1000	1000
XNAB2RE	Extract-N-Amp™ Blood PCR Kits	1000	5000

GENOMIC DNA PURIFICATION

Extract-N-Amp™ Plant PCR Kits

From leaf tissue to PCR in under 15 minutes.

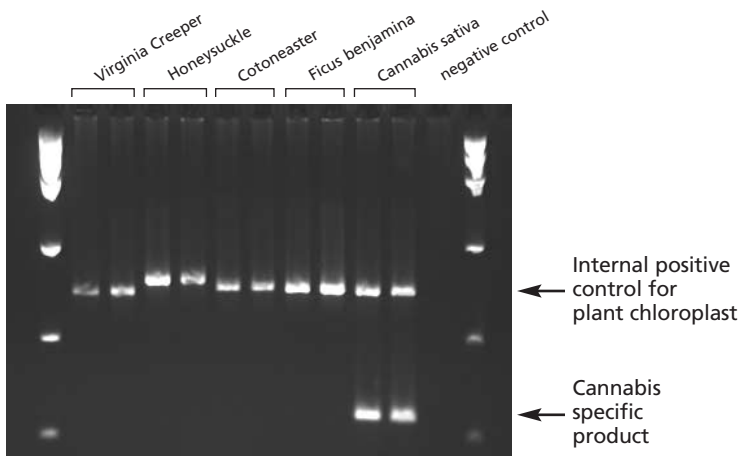
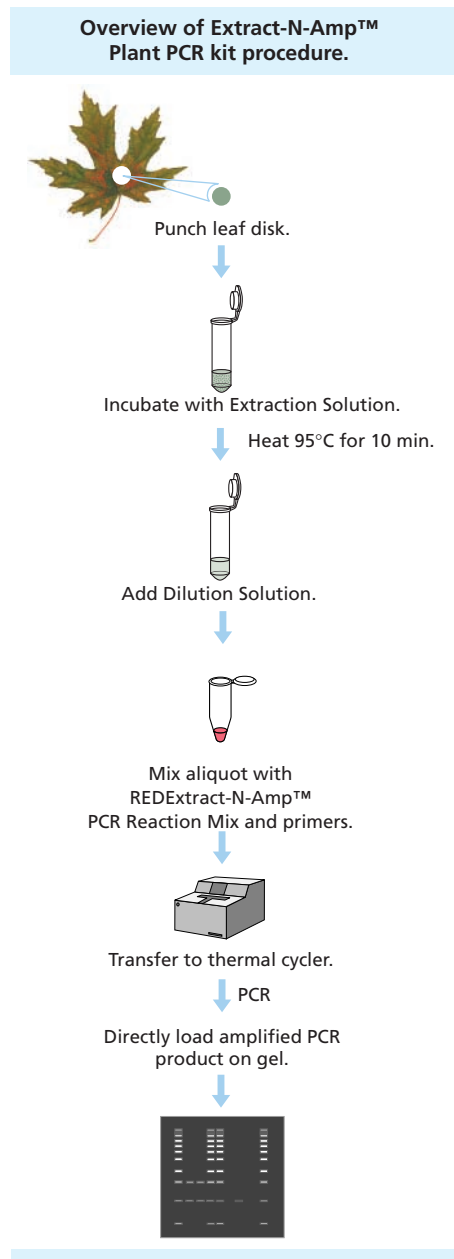
The Extract-N-Amp™ Plant PCR Kits contain all the reagents necessary to rapidly extract genomic DNA from plant leaves and amplify targets of interest by PCR (Fig. 1). A novel Extraction Solution eliminates the need for conventional freezing of plant tissues with liquid nitrogen, mechanical disruption, organic extraction, column purification, or precipitation of DNA. The kit also includes a PCR reaction mix, especially formulated for amplification directly from extract. This formulation uses an antibody based Hot Start for specific amplification. The PCR master mix comes in two formulations: Extract-N-Amp™ PCR Reaction Mix and REExtract-N-Amp™ Plant PCR Kit. The REExtract-N-Amp™ PCR mix contains a dye that acts as a tracking dye and allows for convenient direct loading of PCR reactions onto agarose gels for analysis.

Genomic DNA is extracted from 0.5 to 0.7 cm plant leaf disks that have been cut with a standard paper punch and simply incubated in Extraction Solution at 95 °C for 10 minutes. An equal volume of Dilution Solution is added to the extract to neutralize inhibitory substances prior to PCR. A portion of the DNA extract is then added to a PCR reaction containing primers and either the REExtract-N-Amp™ or Extract-N-Amp™ PCR.

Features and Benefits

- Single-step extraction of plant genomic DNA for PCR in less than 15 minutes
- No freezing, mechanical disruption, organic extraction, column purification or precipitation required
- Specially formulated PCR Ready Mix for use with extract
- Hot Start antibody for highly specific PCR amplification of genomic DNA
- REExtract-N-Amp™ requires no loading buffers or tracking dyes required for gel analysis
- Compatible with high-throughput requirements for genetic analysis of plants
- Extract stable at 4 °C for at least 6 months (Fig. 3)

Storage: -20-0 °C
Shipped in wet ice
R: 36/37/38 S: 26-36



PCR analyses of genomic DNA extracted from 5 different plant species using Sigma's Extract-N-Amp™ Plant Kit. Figure 1. Extract-N-Amp™ Plant PCR Kit used to isolate and amplify genomic DNA from various plant sources. Genomic DNA was extracted from 0.5 cm leaf disks that were cut using a standard paper punch. DNA was extracted using the Extract-N-Amp™ Plant PCR Kit in less than 15 minutes. All samples were then amplified using the specially formulated Hot Start PCR mix. The products were generated from a 30-cycle duplex reaction containing primers specific to plant chloroplast (upper band) and primers specific to Cannabis sativa DNA (lower band). MW ladder is 100, 200, 400 and 800 bp. Data provided by Andy Hopwood, Forensic Science Service, Birmingham, England.

GENOMIC DNA PURIFICATION

GenElute™ Mammalian Genomic DNA Miniprep Kits

For purification of genomic DNA from a variety of mammalian sources.

The GenElute™ Mammalian Genomic DNA Purification Kit provides a simple and convenient way to isolate pure, high molecular weight DNA from a variety of mammalian sources (Figs. 1 and 2). These kits use a silica-based membrane, specially selected for genomic DNA purification, in a convenient spin column format. Mammalian cells and tissues are lysed with a chaotropic salt-containing buffer to ensure denaturation of macromolecules. DNA is bound to the spin column membrane and the remaining lysate is removed by centrifugation. A filtration column is used to remove cell debris, after washing to remove contaminants; the DNA is eluted with buffer into a collection tube. The purified DNA may be used in many applications such as sequencing, cloning, blotting, restriction digestion (Fig. 3), ligation, and PCR.

Features and Benefits

- Typical DNA yields of 25 µg from 2 x 10⁶ cultured cells or 30 µg from 25 mg of tissue (Fig. 4)
- Preparation time is only 20 minutes after lysis
- Purified genomic DNA has A₂₆₀/A₂₈₀ ratios between 1.6 and 1.9
- No need for mechanical homogenization
- 40% more purification preps offered than market leader

Storage: Room Temperature
R: 20/21/22 S: 26-36

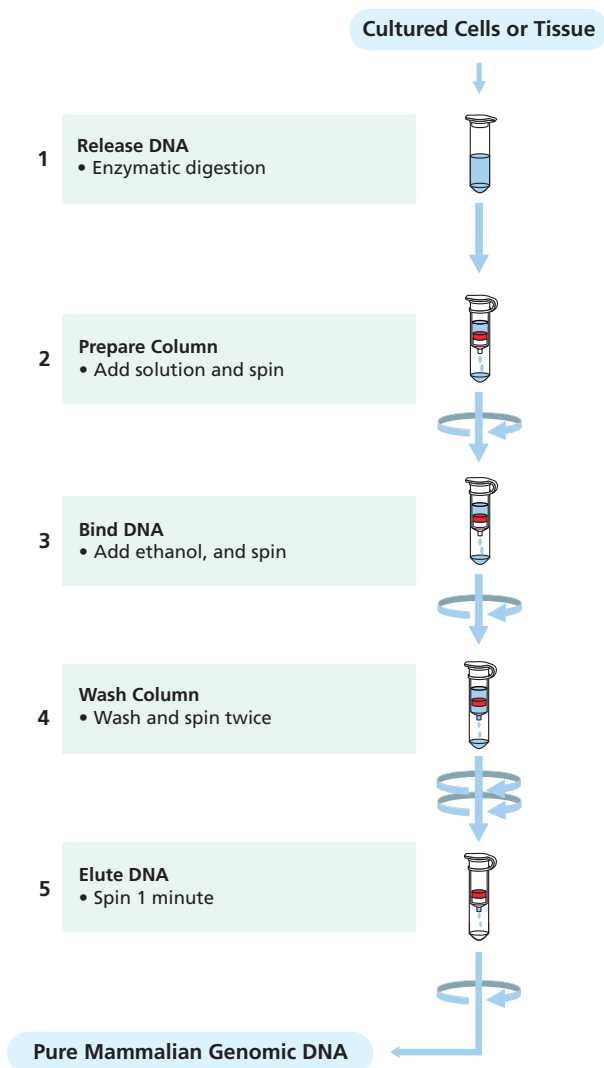
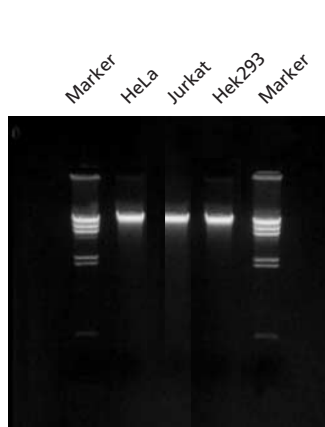


Table 1. Yields produced using GenElute™ Mammalian Genomic DNA Purification Kits*

Material	Amount	Typical Yield
Jurkat Cells (human)	2 x 10 ⁶ Cells	5-10 µg
HEK293 Cells (human)	2 x 10 ⁶ Cells	10-20 µg
HeLa Cells (human)	2 x 10 ⁶ Cells	15-25 µg
Mouse Pancreas Tissue	20 mg	10-25 µg
Mouse Spleen Tissue	10 mg	10-25 µg
Mouse Thymus Tissue	16 mg	10-25 µg
Mouse Lung Tissue	20 mg	5-15 µg
Mouse Brain Tissue	16 mg	5-15 µg
Mouse Kidney Tissue	20 mg	10-25 µg
Mouse Liver Tissue	25 mg	10-30 µg

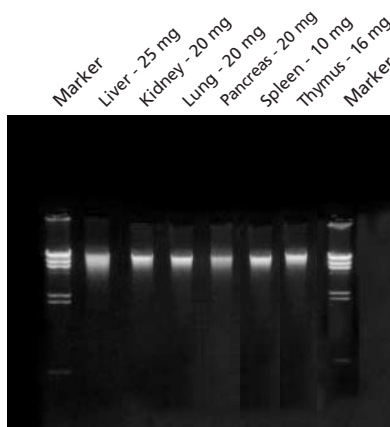
*With RNase and Proteinase K treatment

GENOMIC DNA PURIFICATION



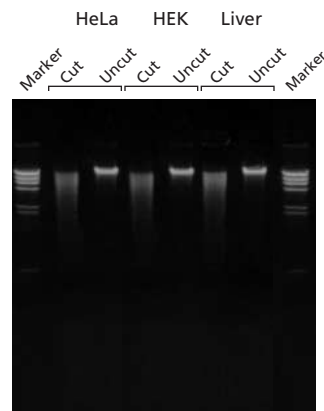
Genomic DNA purified from cells using GenElute™ Mammalian Genomic DNA Purification Kit.

Figure 1. Genomic DNA purified from cells. Purified genomic DNA was isolated with the GenElute™ Mammalian Genomic DNA Purification Kit from 2×10^6 cells of the sources indicated. The genomic DNA (200 ng/lane) was analyzed on a 0.8% agarose gel. Markers are lambda DNA digested with Hind III.



Genomic DNA purified from tissues using GenElute™ Mammalian Genomic DNA Purification Kit.

Figure 2. Genomic DNA purified from mammalian tissues. Purified genomic DNA, from the indicated mouse tissues, was isolated with the GenElute™ Mammalian Genomic DNA Purification Kit. Genomic DNA (200 ng/lane) was analyzed on a 0.8% agarose gel to illustrate yield and integrity. Markers are lambda DNA digested with Hind III.



Genomic DNA purified with GenElute™ Mammalian Genomic DNA Purification Kit is suitable for restriction enzyme digestions.

Figure 3. Genomic DNA (200 ng) was digested with EcoR I (10 units in 20 μ l at 37 °C for 4 hours) followed by electrophoresis (150 ng/lane) on a 0.8% agarose gel. The undigested DNA was incubated under the same conditions, but without EcoR I. Markers are lambda DNA digested with Hind III.



Figure 4. Yields of genomic DNA compared with leading Supplier Q using $2 \times 200 \mu$ l elutions.

ORDERING INFORMATION

Product	Product Description	Preps	Quantity
G1N10	GenElute™ Mammalian Genomic DNA Miniprep	10	1 kit
G1N70	GenElute™ Mammalian Genomic DNA Miniprep	70	1 kit
G1N350	GenElute™ Mammalian Genomic DNA Miniprep	350	1 kit

GENOMIC DNA PURIFICATION

GenElute™ Plant Genomic DNA Miniprep Kits

For Purification genomic DNA from a variety of plant species.

With the GenElute™ Plant Genomic DNA Miniprep Kit, high quality genomic DNA can be purified from a variety of plant species (Table 1, Fig. 1 and 2). The kit contains all the reagents, columns and tubes necessary to isolate genomic DNA from up to 100 mg of fresh or 20 mg of freeze-dried plant tissue. Plant tissue is disrupted by grinding in liquid nitrogen, and DNA is released with detergent and chaotrope. Proteins, polysaccharides, and cell debris are eliminated with a 10 minute precipitation procedure followed by centrifugation through a filtration column, included in the kit. The genomic DNA is purified further by a silica bind-wash-elute procedure in microcentrifuge spin columns. Purified DNA is ready for downstream applications such as PCR (Fig. 3), restriction endonuclease digestions, cloning and southern blots.

Features and Benefits

- Less than 40 minutes from tissue to purified genomic DNA, including disruption in liquid nitrogen (Fig. 4)
- Typical DNA yields of up to 20 µg per prep
- No RNase treatment required
- 40% more purifications per kit than leading supplier

Storage: Room Temperature
R: 20/21/22 S: 26-36

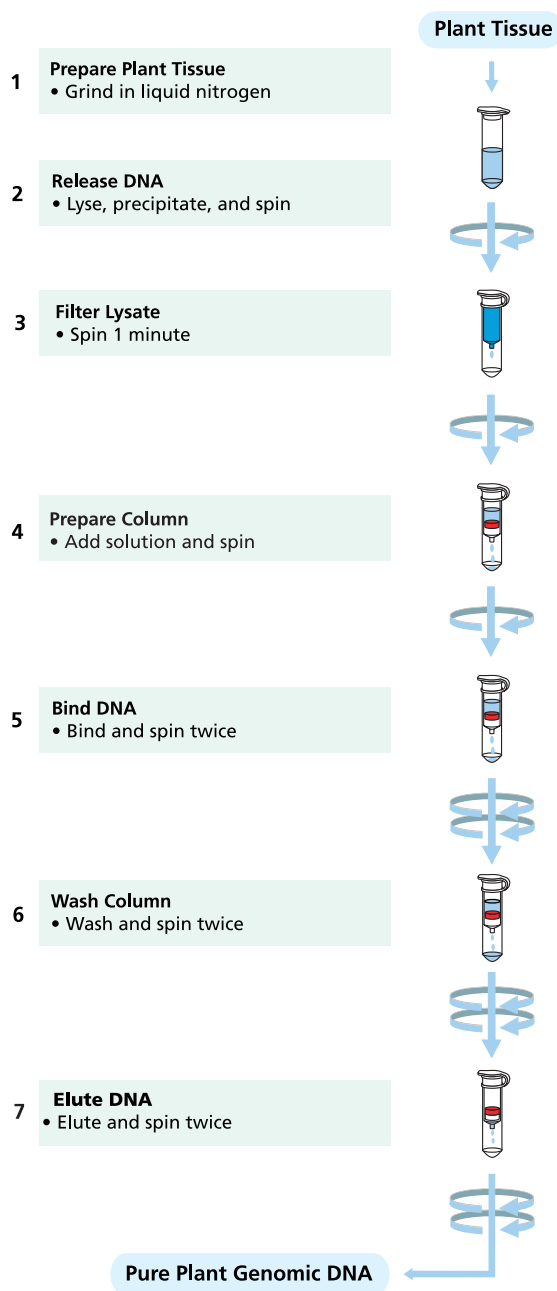
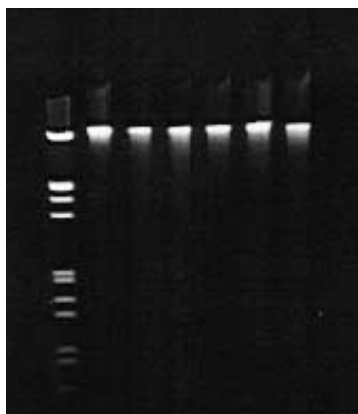


Table 1. Typical yields of genomic DNA isolated from various plant species per 100 mg of starting leaf tissue.

Material	Typical Yield
Corn	7.5 µg
Dianthus tissue culture	3.3 µg
Pepper	3.1 µg
Rice	5.9 µg
Soybean	5.7 µg
Tobacco	5.2 µg
Tomato	6.2 µg
Tomato (20 mg freeze dried leaf tissue)	5.7 µg
Wheat	11.5 µg

GENOMIC DNA PURIFICATION

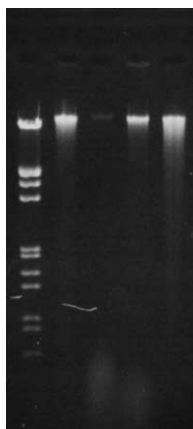
Marker
Dianthus tissue culture
Pepper leaves
Rice leaves
Tobacco leaves
Tomato leaves
Freeze-dried tomato leaves



Genomic DNA from various plant species isolated with GenElute™ Plant Genomic DNA Miniprep Kit.

Figure 1. Purified genomic DNA (0.4 µg/lane) was analyzed on a 0.8% agarose gel. Markers are Lambda Hind III digest.

Marker
Sigma
Supplier A
Supplier M
Supplier Q

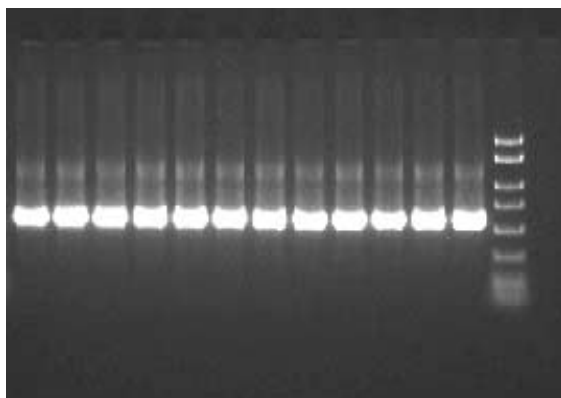


Genomic DNA isolated from 100 mg fresh tomato leaves using various kits.

Figure 2. Purified genomic DNA (0.4 µg/lane) was analyzed on a 0.8% agarose gel. Sigma, membrane-based; Supplier A, resin-based; Supplier M, solution based; Supplier Q, membrane-based.

Note: RNA contamination present in DNA isolated using the kits from both Supplier A and M.

M



PCR amplification of a 500 bp product isolated from genomic DNA.

Figure 3. Genomic DNA from soybean leaves was purified using the GenElute™ Plant Genomic DNA Miniprep Kit. A 5 µl aliquot of eluate was used as template in a 20 µl total PCR reaction for 30 cycles. A 5 µl aliquot of each PCR reaction was resolved on a 2% precast agarose gel (Product Code [P.5722](#)). The PCR marker (M) used (Product Code [P.9577](#)) ranged from 50 bp to 2 kb.

Supplier Comparison of Preparation Time

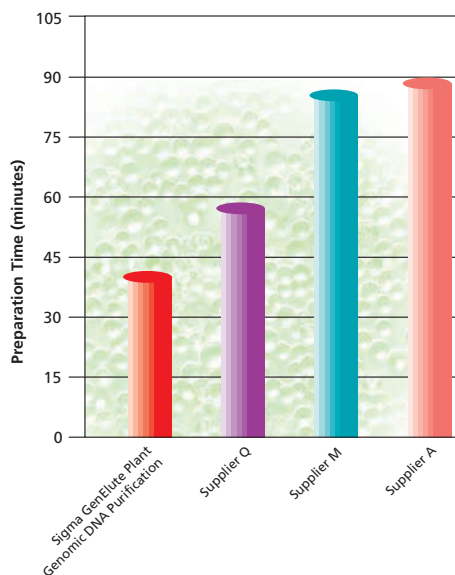


Figure 4. Comparison of preparation time. The prep time required using the GenElute™ Plant Genomic DNA Miniprep Kit, compared to that of three kits from other suppliers.

ORDERING INFORMATION

Product	Product Description	Preps	Quantity
G2N10	GenElute™ Plant Genomic DNA Miniprep	10	1 kit
G2N70	GenElute™ Plant Genomic DNA Miniprep	70	1 kit
G2N350	GenElute™ Plant Genomic DNA Miniprep	350	1 kit

GENOMIC DNA PURIFICATION

GenElute™ Blood Genomic DNA Kits

For purification of genomic DNA from fresh or aged whole blood.

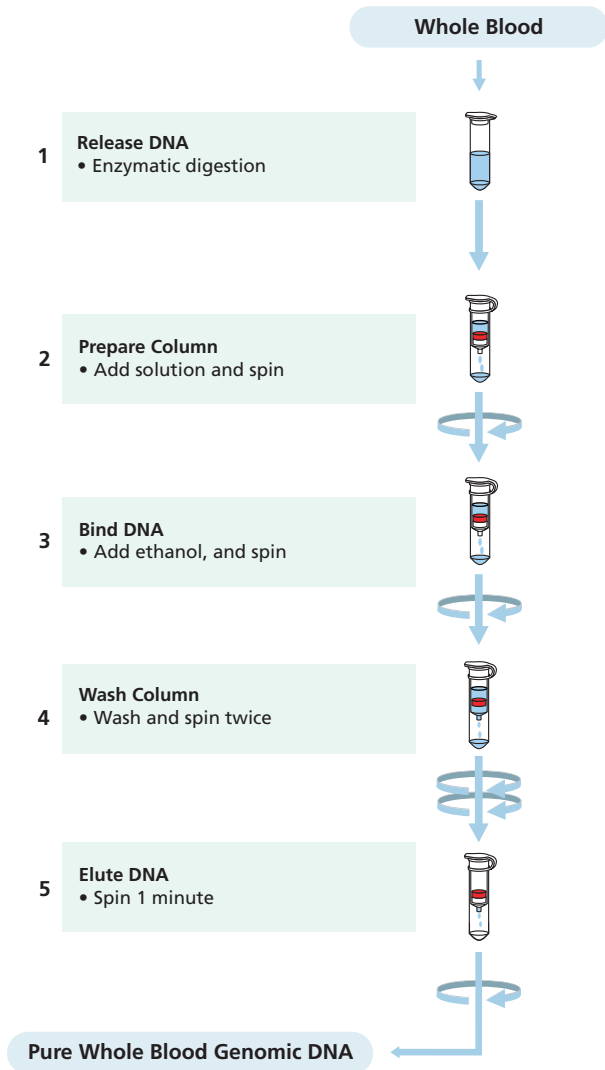
Sigma's GenElute™ Blood Genomic DNA Kit provides a simple and convenient technique to isolate high quality genomic DNA from fresh or aged (older than 24 hours) whole blood. This kit combines the advantages of a silica-based system with a microspin format, eliminating the need for expensive resins and hazardous organic compounds. Whole blood is digested w/Proteinase K and is lysed following the addition of a chaotropic salt-containing solution. DNA is bound to the silica-based membrane and the remaining lysate is removed by centrifugation. After washing, to remove contaminants that are associated with aged whole blood samples, the DNA is eluted with buffer into a collection tube. Purified DNA is ready for downstream applications such as restriction endonuclease digestions (Fig. 1), PCR (Fig. 3), Southern blots and sequencing reactions.

Features and Benefits

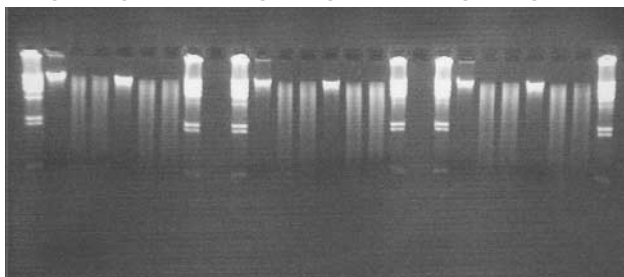
- Isolate high quality genomic DNA from fresh or aged blood
- Compatible with many anticoagulants, including EDTA, Heparin and Sodium Citrate (Figs. 2A and 2B)
- Less than 40 minutes from whole blood to isolated genomic DNA
- A prewash solution is provided to ensure the removal of all contaminants associated with older blood samples
- Purity of genomic DNA has an A_{260}/A_{280} ratio between 1.6 and 1.9
- An RNase solution is provided for added convenience

Storage: Room Temperature

R: 20/21/22-36/37/38-42 S: 22-26-36



EDTA		Heparin		Sodium Citrate																			
S	Q	S	Q	S	Q																		
M	U	E	H	U	E	H	M	M	U	E	H	U	E	H	M	M	U	E	H	U	E	H	M

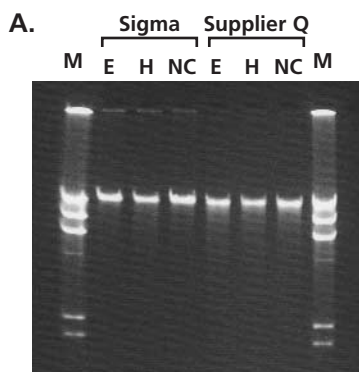


Genomic DNA purified by GenElute™ Blood Genomic DNA kits is suitable for restriction enzyme digestions.

Figure 1. Restriction Enzymes, *EcoR I* and *Hind III* were used to digest genomic DNA isolated with GenElute™ Blood Genomic DNA kit. Whole blood was collected in 3 different anticoagulants: EDTA, Heparin, and Sodium Citrate. A 100 ng aliquot of genomic DNA from each anticoagulant was initially digested with *EcoR I* (5 units per 1 μ l digested at 37 °C for 1.5 hours) and *Hind III* (10 units per 1 μ l digested at 37 °C for 1.5 hours) followed by electrophoresis (50 ng/lane) on a 0.8% agarose gel. Ladder (M) used was Lambda *Hind III* (Product Code D 9780).

U = Undigested
E = *EcoR I*
H = *Hind III*

GENOMIC DNA PURIFICATION



Whole Blood collected in three different anticoagulants was isolated with the GenElute™ Blood Genomic DNA kit and Supplier Q to obtain genomic DNA.

Figure 2A. Purified genomic DNA from whole blood collected in vacutainer tubes, each containing a different anticoagulant (EDTA, Heparin and Sodium Citrate). Samples were isolated with either the GenElute™ Blood Genomic DNA kit or Supplier Q following both protocols in detail. The genomic DNA (100 ng/lane) was analyzed on a 0.8% agarose gel to show overall comparability with the main kit supplier. The whole blood (200 µl per sample) used was obtained from a human donor. Marker (M) used was Lambda Hind III (Product Code [D 9780](#)).

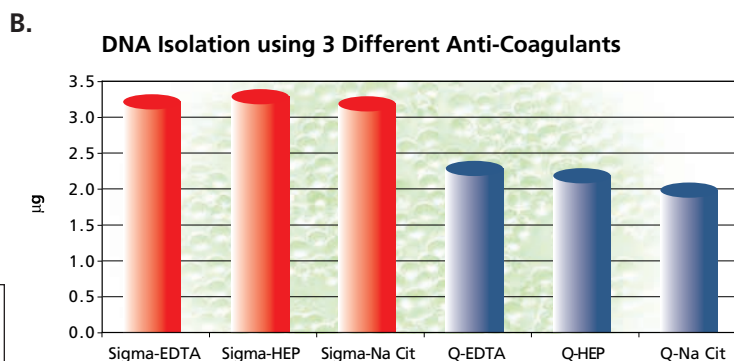
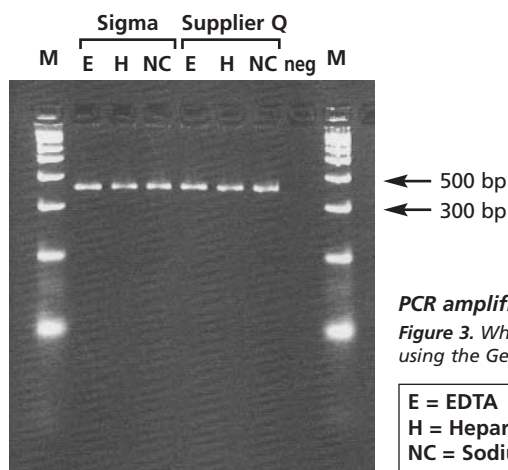


Figure 2B. Yields of genomic DNA compared with leading Supplier Q from 3 different anticoagulants. The amount of DNA was determined measuring absorbance at (A_{260}/A_{280}).



PCR amplification of a 388 bp product isolated from Genomic DNA.

Figure 3. Whole blood collected in 3 different anticoagulants was purified using the GenElute™ Blood Genomic DNA Kit. A 5 µl aliquot of each eluate was used as template in a 20 µl PCR reaction for 35 cycles. A 5 µl aliquot of each PCR reaction was resolved on a 2% agarose gel. The PCR marker (M) (Product Code [P 9577](#)) used ranged from 50 bp to 2 kb.

ORDERING INFORMATION

Product	Product Description	Preps	Quantity
NA2000	GenElute™ Blood Genomic DNA Kit	10	1 kit
NA2010	GenElute™ Blood Genomic DNA Kit	70	1 kit
NA2020	GenElute™ Blood Genomic DNA Kit	350	1 kit

GENOMIC DNA PURIFICATION

GenElute™ Bacterial Genomic DNA Kit

For purification of genomic DNA from a variety of cultured bacteria.

Sigma's GenElute™ Bacterial Genomic Kit provides a simple and convenient technique to isolate high quality DNA from both Gram – (Fig. 1) and Gram + bacteria (Fig. 2). This kit combines the advantages of a silica-based system with a microspin format, eliminating the need for expensive resins and hazardous organic compounds. Bacteria are first incubated with the appropriate enzymes to ensure efficient cell lysis and DNA release from the cells. The bacteria are then lysed in a chaotropic salt-containing solution. DNA is bound to the silica-based membrane and the remaining lysate is removed by centrifugation. After washing to remove contaminants, the DNA is eluted with buffer into a collection tube. Eluted DNA can be up to 50 kb in length (Fig. 3) and is suitable for downstream applications such as restriction endonuclease digestions, PCR, and Southern blots.

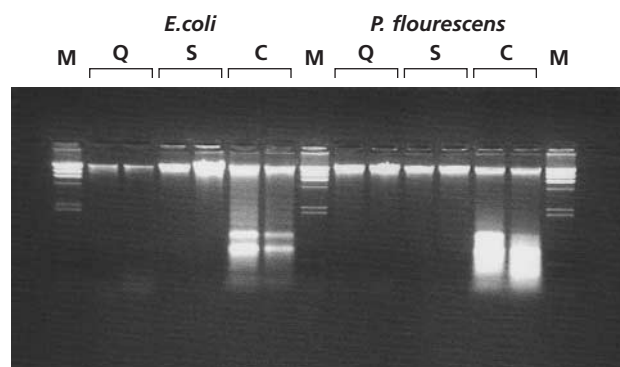
The GenElute™ Bacterial Genomic DNA Kit contains all of the reagents needed to purify genomic DNA from Gram – bacteria (Fig. 3). However lysozyme (Product Code [L 7651](#)), which must be purchased separately, is needed for most Gram + bacteria to thoroughly lyse the thick peptidoglycan cell walls. A Gram + Lysis Solution is provided with the GenElute™ kit as a diluent for preparing the lysozyme stock solution.

Features and Benefits

- Protocols provided for Gram + and Gram – bacteria
- High quality genomic DNA in less than 2 hours
- Purified DNA has an A_{260}/A_{280} ratio between 1.6 and 1.9
- Typical DNA yields of 15 µg - 20 µg (See Table 1)
- Lysozyme diluent & RNase A Solution provided for added convenience

Storage: Room Temperature

R: 20/21/22-36/37/38-42 S: 22-26-36



Comparison of Gram – bacteria genomic DNA isolation kits.

Figure 1. Agarose gel analysis of genomic DNA isolated from the indicated Gram – bacteria prepared using the GenElute™ Bacterial Genomic DNA Kit versus kits from other suppliers. Equal proportions of DNA were resolved on a 1%, 1X TBE agarose gel. The Lambda Hind III ladder (Product Code [D 9780](#)) was used as a size standard (M).

Q = Supplier Q
S = Sigma
C = Supplier C

Table 1: Typical DNA Yields with the GenElute™ Bacterial Genomic DNA Kit.

Source	Type of Media	Amount of Overnight Culture	OD ₆₀₀ per ml Overnight Culture*	Typical DNA Yield (with RNase Treatment)**
<i>Escherichia coli</i> , ATCC# 11775	Terrific broth (Product Code T 9179)	0.8 ml	12.5	20 µg
<i>Escherichia coli</i> , ATCC# 11775	LB broth (Product Code L 7658)	1.5 ml	5	20 µg
<i>Escherichia coli</i> DH10B	LB broth (Product Code L 7658)	1.0 ml	5	15 µg
<i>Pseudomonas fluorescens</i> , ATCC# 13525	Terrific broth (Product Code T 9179)	0.8 ml	16	25 µg
<i>Pseudomonas fluorescens</i> , ATCC# 13525	Nutrient broth (Product Code N 7519)	1.5 ml	2	20 µg
<i>Bacillus subtilis</i> , ATCC# 6051	Todd Hewitt broth (Product Code T 1438)	1.5 ml	6	25 µg
<i>Streptococcus mutans</i> , ATCC# 35668	Todd Hewitt broth (Product Code T 1438)	1.5 ml	1.3	15 µg***
<i>Staphylococcus epidermidis</i> , ATCC# 14990	Nutrient broth (Product Code N 7519)	1.5 ml	2	8 µg****

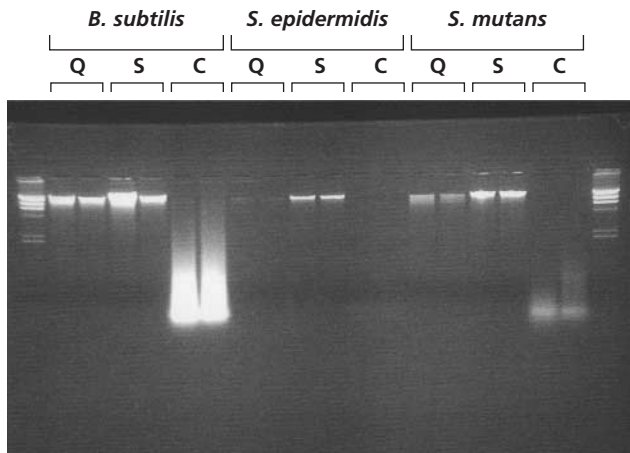
* Values adjusted for dilution factor.

** Based on performing two 200 µl elutions.

*** Lysozyme Solution was supplemented with 250 units/ml of Mutanolysin (Product Code M 9901).

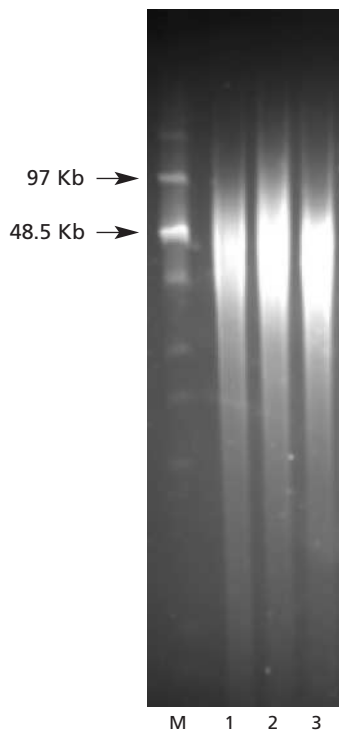
**** Lysozyme Solution was supplemented with 200 units/ml of Lysothaphin (Product Code L 7386).

GENOMIC DNA PURIFICATION



Comparison of Gram + bacteria genomic DNA isolation kits.
Figure 2. Agarose gel analysis of genomic DNA isolated from the indicated Gram + bacteria prepared using the GenElute™ Bacterial Genomic DNA Kit versus kits from other suppliers. Equal proportions of DNA were resolved on a 1%, 1X TBE agarose gel. The Lambda Hind III ladder (Product Code [D 9780](#)) was used as a size standard (M).

Q = Supplier Q
 S = Sigma
 C = Supplier C



PFGE of Bacterial gDNA isolated with GenElute Bacterial gDNA Kit
Figure 3. Purified genomic DNA was isolated from various bacterial species using the GenElute™ Bacterial Genomic DNA kit. A 1 µg aliquot of DNA from each respective bacterial sample was resolved on a 1% agarose gel in 0.5X TBE at 150 volts for 16 hours using a BioRad CHEF DRII system. The initial pulse time was 2 seconds, the final pulse time was 13 seconds, the start ratio was 1.0, pump speed was set at 70, and PFGE was carried out at 4 °C. M represents the 0.1-200 kb Pulse marker (Product Code [D 2291](#)).
Lane 1: *E. coli*
Lane 2: *P. fluorescens*
Lane 3: *B. subtilis*

ORDERING INFORMATION

Product	Product Description	Preps	Quantity
NA2100	GenElute™ Bacterial Genomic DNA Kit	10	1 kit
NA2110	GenElute™ Bacterial Genomic DNA Kit	70	1 kit
NA2120	GenElute™ Bacterial Genomic DNA Kit	350	1 kit