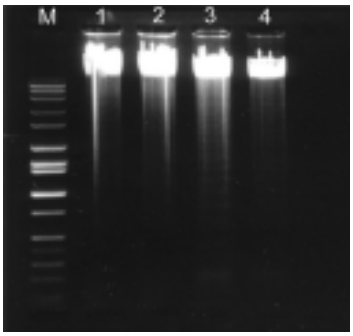
Facile and Rapid Extraction and Purification of Genomic DNA

The Omni-Pure™ Genomic DNA purification system is designed for a convenient volume of 300 µl whole blood (lower volumes can also be used) to yield an average of ~10 µg ultra pure DNA. This quantity is sufficient for restriction-based Southern blot analysis and hundreds of PCR-based analyses.

The Omni-Pure™ Genomic DNA purification system is designed for convenience and consistency. It is a universal genomic DNA purification system. Ultra pure genomic DNA can be purified from small amounts of almost all known sample types and sources. Samples from human blood, bodily fluids, animal and plant tissue and microbial and viral sources have been purified using the Omni-Pure™ Genomic DNA purification system. One purification is usually sufficient to yield enough DNA for all molecular biology applications.



Purified genomic DNA (~200 ng) was electrophoresed on a 0.8% agarose gel and stained with ethidium bromide. Observe high quality genomic DNA that ranges from ~30 to 50 kb in size. Lane M contains molecular weight markers from 10 kb to 50 bp in length. Lanes 1-4 are genomic DNA samples obtained from blood samples of 4 different individuals using the Omni-Pure™ system.

APPLICATION:

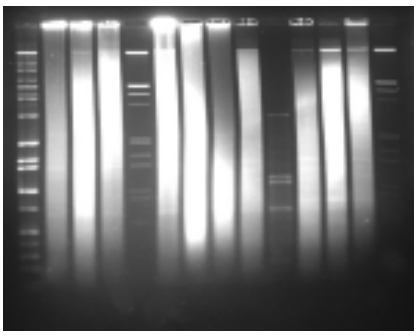
Tissue DNA Purification

An accompanying product manual contains a detailed protocol for the purification of genomic DNA from animal tissue. The protocol has been tested and yields high quality DNA. The gel picture shows genomic DNA extracted from mouse and rat skeletal muscle and liver. This system is geared towards minute tissue samples. From 2 mg of tissue an average yield of 2-10 µg is expected. The DNA is suitable for all molecular biology applications.

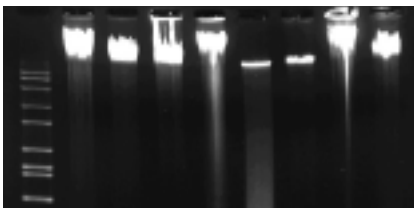
APPLICATION:

Blood DNA Purification

Each purification sample volume is specially geared towards the desired downstream application. A sample volume of 300 µl is recommended for human blood samples yielding on average from 5–15 µg of high molecular weight and high quality genomic DNA for two restriction digestions for Southern blot analysis. The yield is sufficient for hundreds of PCR amplification reactions. An accompanying product manual contains a detailed protocol for the extraction of genomic DNA from tissues and bodily fluids.



Human blood genomic DNA from different individuals purified using the Omni-Pure™ Genomic DNA Purification System. Approximately 5 µg were digested with different restriction enzymes and the samples were electrophoresed on a 0.7% agarose gel. Note the high molecular weight DNA and the consistency between different samples. The gel was processed for Southern blot analysis and chemiluminescent detection.

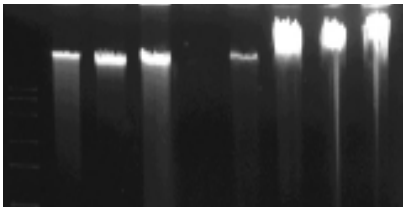


Samples from various animals were processed for DNA purification using the Omni-Pure™ Genomic DNA Purification System. Purified genomic DNA (~200 ng) was electrophoresed on a 0.7% agarose gel and stained with ethidium bromide. Observe high quality genomic DNA that ranges from ~30 to 50 kb in size. Lane 1 contains molecular weight markers followed by samples from human, rabbit, cat, mouse, guinea pig, sheep, pig and hamster.

APPLICATION:

Plant DNA Purification

An accompanying product manual contains a detailed protocol for the purification of genomic DNA from plant tissue. The protocol has been tested and yields high quality DNA. The gel picture shows genomic DNA extracted from plants such as ginger, green pepper, cilantro and carrot. This system is geared towards minute tissue samples. From 2 mg of tissue an average yield of 2-10 µg is expected. The DNA is suitable for all molecular biology applications.



Samples from various plant tissues were processed for DNA purification using the Omni-Pure™ Plant DNA Purification System. Purified genomic DNA (~200 ng) was electrophoresed on a 0.7% agarose gel and stained with ethidium bromide. Observe high quality genomic DNA that ranges from ~30 to 50 kb in size. Lane 1 contains molecular weight markers followed by plant samples from ginger, green pepper, cilantro, blank lane, carrot and animal genomic DNA comparison samples from human, mouse and pig.

Omni-Pure™ Genomic DNA Purification Systems

Product	Catalog No.	Size*	Price ($)
Omni-Pure™ Blood DNA Purification System	40-4010-01	100	80.00
Omni-Pure™ Blood DNA Purification System	40-4010-05	500	320.00
Omni-Pure™ Blood DNA Purification System	40-4010-10	1000	495.00
Omni-Pure™ Tissue DNA Purification System	40-4050-01	100	85.00
Omni-Pure™ Tissue DNA Purification System	40-4050-05	500	340.00
Omni-Pure™ Tissue DNA Purification System	40-4050-10	1000	510.00
Omni-Pure™ Plant DNA Purification System	40-4060-01	100	85.00
Omni-Pure™ Plant DNA Purification System	40-4060-05	500	340.00
Omni-Pure™ Plant DNA Purification System	40-4060-10	1000	510.00
Omni-Pure™ Universal DNA Purification System	40-4070-01	100	110.00
Omni-Pure™ Universal DNA Purification System	40-4070-05	500	440.00
Omni-Pure™ Universal DNA Purification System	40-4070-10	1000	660.00

*Sample volume for each purification system varies. Each purification yields sufficient quantity for desired applications.

Are You Genotyping?

Consider using Gene Link's comprehensive line of non-radioactive gene detection systems. We have genotyping solutions for triple repeat disorders, single base mutations and various pathogens.

The Omni-Pure™ Genomic DNA Purification System

- Ultra Purified Genomic DNA
- No Toxic Reagents
- ~30 Minute Protocols
- Blood & Bodily Fluid Genomic DNA
- Animal Tissue Genomic DNA
- Plant Tissue Purification
- Yeast DNA Purification
- Gram Positive & Negative Bacterial DNA
- Suitable for All Molecular Biology Applications
- Convenient Optimized Systems
- Detailed Manual Provided with Product

GOLD STANDARD

Convenience Perfected

All of the reagents, a simple 30 minute protocol and ultra pure genomic DNA for all your gene detection applications. Get one today!