

# DNA Isolation from Blood

## UltraClean™ Blood DNA Isolation Kit (Non-Spin)

For isolating high molecular weight DNA from whole blood without spin filters

### DESCRIPTION

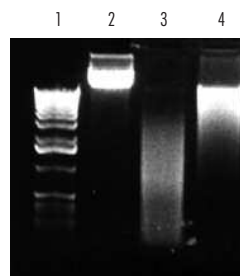
The UltraClean™ Blood DNA Isolation Kit (Non-Spin) is designed to isolate very high molecular weight genomic DNA from whole blood, buffy coat or cultured cells. It is a solution-based kit that employs a gentle procedure to eliminate shearing.

Lysis buffer is added directly to whole blood (fresh, frozen or stored at 4°C). Next, cell nuclei and mitochondria are pelleted by centrifugation. The pellet is resuspended and incubated in a detergent solution, salt solution and RNase A to efficiently remove contaminants such as proteins and RNA. DNA is then precipitated by addition of isopropanol, recovered by centrifugation, washed in 70% ethanol, dried and resuspended in hydration buffer.



### Features and Benefits

- Yields high molecular weight DNA up to 200 kb with less shearing
- Uses a gentle salting out precipitation methodology that eliminates DNA shearing
- Purifies DNA from whole blood, buffy coat and cultured cells in 1 hour
- Provides pure DNA that is ready for PCR, restriction digests, and all downstream applications
- No silica spin filters are used to isolate DNA



### Isolates High Molecular Weight DNA

Genomic DNA was isolated from whole blood using the UltraClean™ Blood DNA Isolation Kit (Non-Spin) and displayed on a 1.2% TAE agarose gel.

Lane 1: Marker; Lane 2: Undigested DNA; Lane 3: Hae III digest; Lane 4: EcoR I digest

### RELATED PRODUCTS YOU MAY NEED

UltraClean™ Agarose  
TAE Buffer, 50X (Tris-acetate-EDTA)  
TBE Buffer, 10X (Tris-borate-EDTA)

UltraClean™ Blood DNA Isolation Kit (Non-Spin)	
Catalog No.	Quantity
12000-100	100 preps

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# DNA Isolation from Blood

## UltraClean™ BloodSpin™ DNA Isolation Kit

Fast spin column protocol for isolating DNA from 200 µl of whole blood

### Features and Benefits

- Rapidly isolate DNA from whole blood, buffy coat or cultured cells in 20 minutes
- Yields high quality DNA up to 50 kb ready for PCR and restriction digest
- All tubes and reagents required are included

### REFERENCES:

1. Valiante, S., Prisco, M., Capaldo, A., Zambrano, I., De Falco, M., Andreuccetti, P., Laforgia, V. & Varano, L. (2007) *Brain Research* 1127: 66
2. Sery, O., Didden, W., Mikes, V., Pitelova, R., and Znojil, V. (2006) *Neuro Endocrinology Letters* 27 (1-2):101

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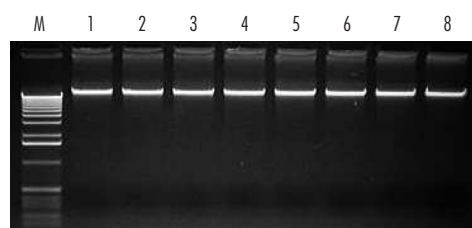
The UltraClean™ BloodSpin™ DNA Isolation Kit is designed to isolate genomic and mitochondrial DNA from whole blood (fresh, frozen or stored at 4°C), buffy coat or cultured cells.

In the presence of Proteinase K, cells are lysed, and proteins are degraded. The lysate is centrifuged through a silica membrane spin filter. DNA binds to the spin filter due to the high salt nature of the lysis buffer. The filter is washed and DNA is recovered in certified DNA-free Tris buffer.

Specifications	UltraClean™ BloodSpin™ DNA Isolation Kit	UltraClean-htp™ 96 Well BloodSpin™ DNA Isolation Kit
Format	Silica Spin Filter Tubes	Silica Spin Filter Plates
Starting Amount	200 µl	200 µl
Binding Capacity	Up to 40 µg per filter	Up to 40 µg per well
Throughput	1 - 24 samples	96 samples
Time	20 minutes	20 minutes
Equipment Required	Microcentrifuge	Microcentrifuge

## UltraClean-htp™ 96 Well BloodSpin™ DNA Isolation Kit

For high throughput isolation of DNA from blood



### Consistent High-Quality DNA

Genomic DNA was isolated from whole blood using the UltraClean-htp™ 96 Well BloodSpin™ DNA Isolation Kit and displayed on a 1.2% TAE agarose gel. Lane M: Marker; Lanes 1-8; Undigested DNA

### DESCRIPTION

The UltraClean-htp™ 96 Well BloodSpin™ DNA Isolation Kit is designed to purify genomic and mitochondrial DNA from whole blood (fresh, frozen or stored at 4°C), buffy coat or cultured cells in 96 well plates. The protocol is designed as a centrifugation method.

### RELATED PRODUCTS YOU MAY NEED

UltraClean™ Mega BloodSpin™ DNA Isolation Kit  
Molecular Biology Grade Water  
PCR Water (Certified DNA-Free)

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Technical Service: technical@mobio.com

UltraClean™ BloodSpin™ DNA Isolation Kit	
Catalog No.	Quantity
12200-50	50 preps
12200-250	250 preps
UltraClean-htp™ 96 Well BloodSpin™ DNA Isolation Kit	
Catalog No.	Quantity
12296-4	4 x 96 preps
12296-12	12 x 96 preps

# DNA Isolation from Blood

## UltraClean™ Mega BloodSpin™ DNA Isolation Kit

For isolating DNA from 10 ml of whole blood

### DESCRIPTION

The UltraClean™ Mega BloodSpin™ DNA Isolation Kit is designed to rapidly isolate genomic and mitochondrial DNA from large volumes of whole blood, buffy coat or cultured cells. Whole blood may be fresh, frozen or stored at 4°C. This kit does not require separating lymphocytes.

In the presence of Proteinase K, cells are lysed, and proteins are degraded. The lysate is centrifuged through a silica membrane spin filter. DNA is bound to the spin filter due to the high salt nature of the lysis buffer. The filter is washed. Finally, the DNA is recovered in certified DNA-free Tris buffer or water.

Specifications	
Format	Silica Spin Filter Tubes
Starting Amount	10 ml
Binding Capacity	Up to 1 mg per filter
Throughput	1-4 samples
Time	35 minutes
Equipment Required	Centrifuge for 50 ml tubes



### Features and Benefits

- Isolates DNA from whole blood, buffy coat or cultured cells in only 35 minutes
- Yields quality DNA up to 50 kb plus
- DNA is ready for PCR, restriction digests, and all downstream applications

### RELATED PRODUCTS YOU MAY NEED

UltraClean-htp™ 96 Well BloodSpin™ DNA Isolation Kit  
UltraClean™ BloodSpin™ DNA Isolation Kit  
PCR Water (Certified DNA-free)  
UltraClean™ Lab Cleaner  
Mini Horizontal Gel System

UltraClean™ Mega BloodSpin™ DNA Isolation Kit	
Catalog No.	Quantity
12210-10	10 preps

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