

Blood DNA Isolation 96-Well Kit

Norgen's Blood DNA Isolation 96-Well Kit provides a rapid method for the high-throughput isolation of genomic DNA from up to 200 mL of whole blood. Purification is based on 96-well column chromatography as the separation matrix. Norgen's 96-well plate binds DNA under optimized salt concentrations and releases the bound DNA under low salt and slightly alkali conditions. The purified genomic DNA is fully digestible with all restriction enzymes tested, and is completely compatible with downstream applications including real-time PCR and Southern Blot analysis.



Norgen's Blood Genomic DNA Isolation 96-Well Kit allows for the isolation of genomic DNA from the blood of various species, including humans. The genomic DNA is preferentially purified from other cellular proteinaceous components. Typical yields of genomic DNA will vary depending on the cell density of the blood sample. Preparation time for a single 96-well plate is less than 90 minutes, and each kit contains sufficient materials for 192 preparations.

Kit Specifications			
Maximum Blood Input	200 μ L	Average Yield (from 200 μ L)	2 - 8 μ g*
Column Binding Capacity	> 50 μ g	Time to Complete 96 Purifications	45 minutes

* Yield will vary depending on the type of blood processed

Blood Genomic DNA Isolation 96-Well Kit Benefits

Fast and easy processing	96-Well Plates can be rapidly processed in 45 minutes using either a vacuum manifold or centrifugation format.
High quality DNA	Isolated DNA is of the highest quality and free from RNA contamination.
Recovered genomic DNA is suitable for downstream applications	Purified genomic DNA is fully compatible with restriction enzyme digestions, PCR, and Southern Blot analysis.

Blood DNA Isolation 96-Well Kit

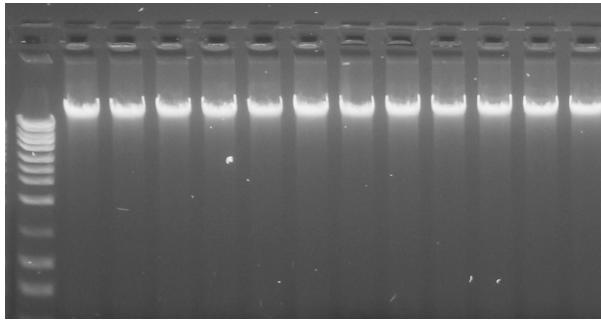


Figure 1. High Yields of Genomic DNA Isolated from 200 μ L of Whole Blood. Genomic DNA was isolated from 200 μ L of whole blood using Norgen's Blood Genomic DNA Isolation 96-Well Kit. Following isolation of 12 samples, 15 μ L from each 200 μ L elution was loaded on 1% TAE agarose gel. Norgen's Blood Genomic DNA Isolation 96-Well Kit demonstrated a good and consistent DNA yield and integrity. Lane M: Norgen's HighRanger 1 kb DNA Ladder.

Blood Genomic DNA Isolation 96-Well Kit Contents

1. Lysis Buffer B
2. Solution WN
3. Wash Solution A
4. Elution Buffer B
5. Proteinase K
6. 96-Well Plate
7. Adhesive Tape
8. 96-Well Collection Plate
9. 96-Well Elution Plate
10. Product Insert

Customer-Supplied Reagents and Equipment

- Vacuum manifold or centrifuge to accommodate 96-well plates
- 1.5 mL microcentrifuge tubes
- 55°C water bath or heating block
- 96 - 100% ethanol

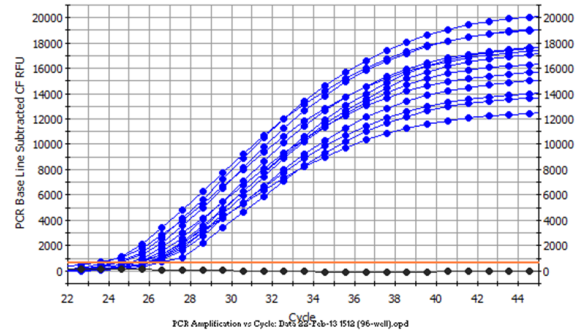


Figure 2. Purified DNA Can be Amplified in a Real-time PCR (TaqMan) Reaction. Genomic DNA was isolated from 200 μ L of whole human blood using Norgen's Blood Genomic DNA Isolation 96-Well Kit. Five μ L of the DNA from each 200 μ L elution was used in a real-time PCR reaction (total reaction volume of 20 μ L) with GAPDH TaqMan probe and primers. The real-time PCR was successful in amplifying the GAPDH gene from all the isolated 12 samples (blue). This indicates that the isolated DNA from all samples is of a high quality and can be used in sensitive downstream applications. The black line is a no-template control.

Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. These reagents should remain stable for at least 1 year in their unopened containers. The kit contains a ready-to-use Proteinase K solution, which is dissolved in a specially prepared storage buffer. The Proteinase K is stable for up to 1 year after delivery when stored at room temperature. To prolong the lifetime of Proteinase K, storage at 2–8°C is recommended.

Shipping Conditions

The Blood Genomic DNA Isolation 96-Well Kit is shipped at room temperature.

Cat #	Description	Quantity
46350	Blood Genomic DNA Isolation 96-Well Kit	192 preps