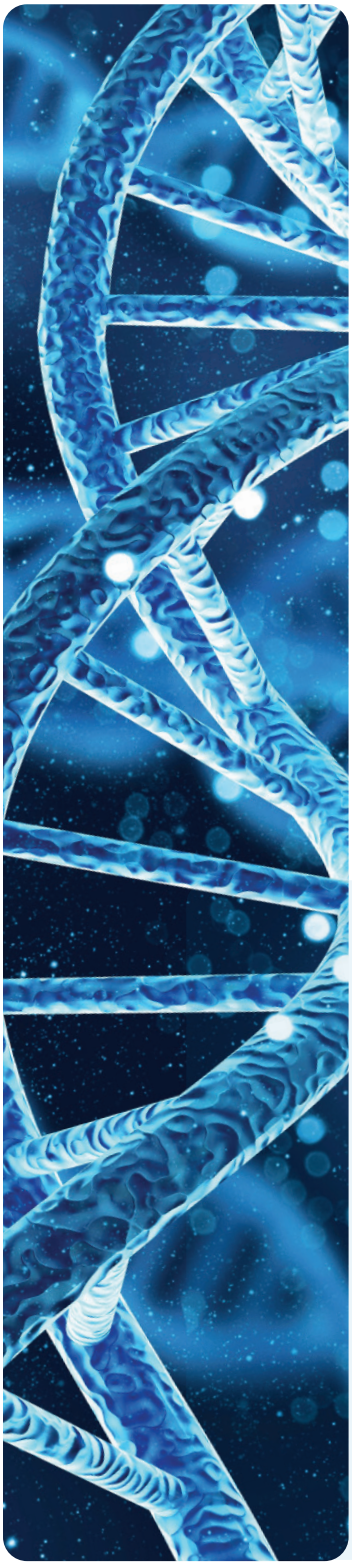


MAGNETIC BEAD SYSTEM

Blood DNA Isolation Kits

CAT. 59800, 62600

For the rapid preparation of high quality DNA from whole blood

- Norgen's Blood DNA Isolation Kit (Magnetic Bead System) is designed for the rapid preparation of genomic DNA from up to 200 µL of whole blood from various species, including human.
- Purification is based on magnetic beads as the separation matrix.
- Norgen's magnetic beads bind DNA under optimized salt concentrations and releases the bound DNA under low salt and slightly alkali conditions.
- The genomic DNA is preferentially purified from other cellular proteinaceous components.
- The purified genomic DNA is fully digestible with all restriction enzymes tested, and is completely compatible with downstream applications including real-time PCR, NGS and microarray analysis.
- Downloadable automation scripts available

NORGEN BIOTEK

ISO 13485:2016 CERTIFIED QUALITY

ISO 9001:2015 CERTIFIED QUALITY

GMP

Advantages to Bring to Your Lab

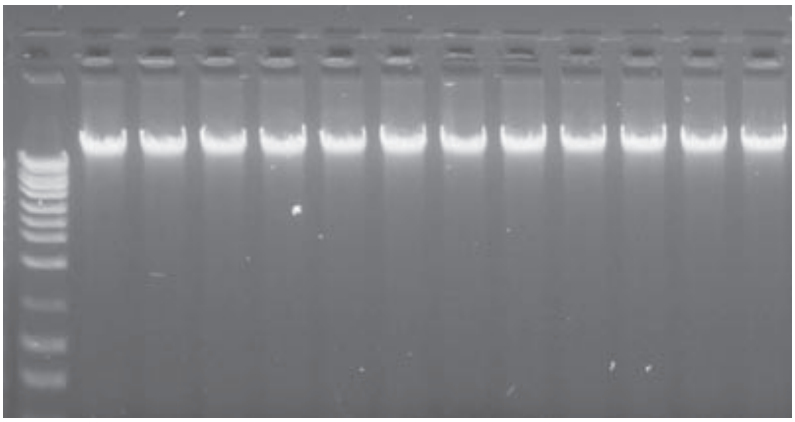


Figure 1. High Yields of DNA Isolated from 200 µL of Whole Blood. DNA was isolated from 200 µL of whole blood using Norgen's Blood DNA Isolation 96-Well Kit. Following isolation of 12 samples, 15 µL from each 200 µL elution was loaded on 1% TAE agarose gel. Norgen's Blood DNA Isolation 96-Well Kit demonstrated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

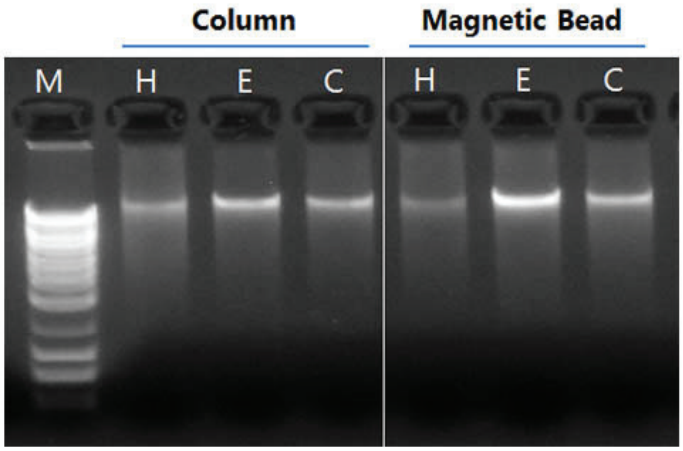


Figure 2. DNA Isolated from Blood Preserved in 3 Different Anticoagulants. DNA was isolated from 200 µL of human whole blood samples preserved in three different anticoagulants (Heparin: H, EDTA: E and Na Citrate: C) using Norgen's Blood DNA Isolation Kit (Magnetic Bead System) and Norgen's Blood DNA Isolation Mini Kit (column format, Cat. 46300). For evaluation, 10 µL from each 200 µL of elution were run on 1X TAE 1.2% agarose gel. Norgen's Blood DNA Isolation Kit (Magnetic Bead System) showed an intact and comparable DNA profile to the column method from all three different anticoagulant mixed blood samples. Marker = Norgen's HighRanger DNA Ladder.

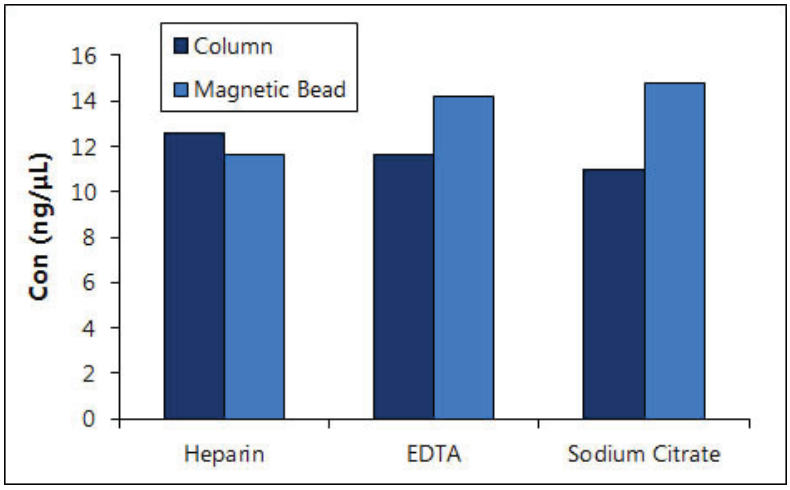
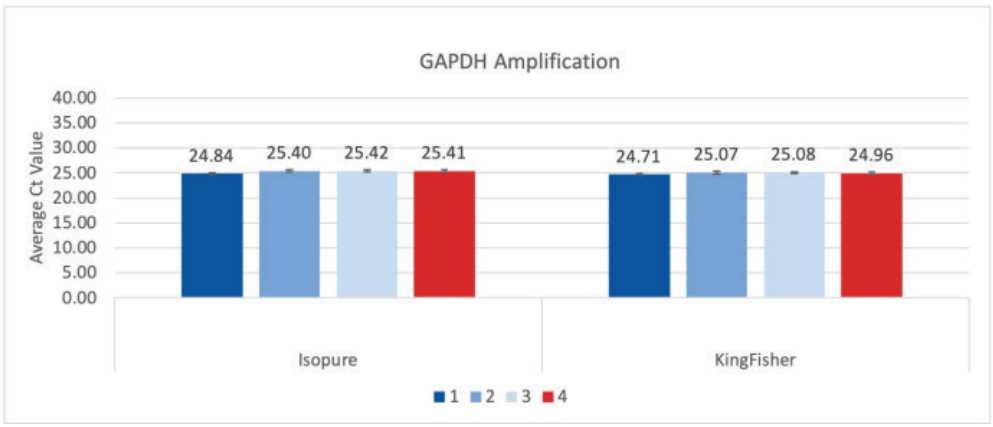


Figure 3. High Yield of Blood DNA. DNA was isolated from 200 µL of human whole blood samples preserved in three different anticoagulants (Heparin, EDTA and Na Citrate) using Norgen's Blood DNA Isolation Kit (Magnetic Bead System) and Norgen's Blood DNA Isolation Mini Kit (column format, Cat. 46300). The total DNA yield from all the elutions was compared, and it was found that the Magnetic Bead System isolated a similar DNA yield to the column method from all the different anticoagulants tested.



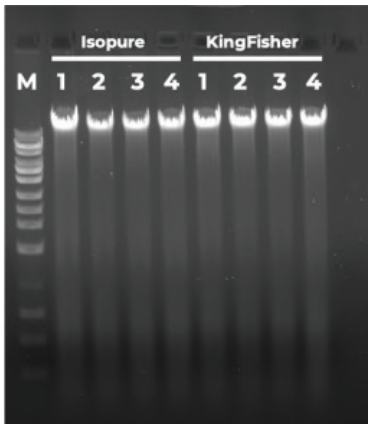


Figure 4. Comparison of automated DNA extraction platforms using the Blood DNA Isolation Kit (Magnetic Bead System) (Cat: 59800). Genomic DNA was extracted from 200 µL of human blood using two automated platforms: Isopure 96 and KingFisher Flex. The bar graph (left) shows average Cq values from qPCR targeting the GAPDH gene using 3 µL of eluate per 20 µL reaction, indicating consistent DNA amplifiability across platforms. Error bars represent standard deviation (n = 4). The gel image (right) shows 10 µL of extracted DNA from each prep run on a 1% agarose gel in 1X TAE buffer. The Norgen UltraRanger 1 kb DNA Ladder (Cat. 12100) was loaded in the first lane. High molecular weight genomic DNA is visible in all samples, with comparable band intensity, indicating similar DNA yield and integrity between the Isopure 96 and KingFisher Flex platforms.

KIT SPECIFICATIONS

Specification	Blood DNA Isolation Kit 59800	Blood DNA Isolation 96-Well Kit 62600
Number of Preps	50	192
Maximum Blood Input	200 µL	200 µL
Average Yield (200 µL of blood)*	4-12 µg	4-12 µg
Average Purity (OD260/280)	1.7-1.9	1.7-1.9

* Average DNA yield will vary depending on the type of samples

ORDERING INFORMATION

Description	Prep	Cat. #
Blood DNA Isolation Kit (Magnetic Bead)	50 Preps	59800
Blood DNA Isolation 96-Well Kit	2 x 96-Well	62600

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APPLICATION

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cf-DNA/cf-RNA Preservative Tubes Dx CE	50 Tubes	Dx63950

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