

## PrepQuant™ Genomic DNA EQ 400 Kit

Rapid, cost-efficient extraction and quantification of nucleic acid

The PrepQuant Genomic DNA EQ 400 Kit is designed for high-efficiency, fully automated extraction and quantification of genomic DNA (gDNA) from whole blood, bone marrow, or other liquid samples using the PrepQuant System. With a streamlined workflow and minimal hands-on time, the kit delivers high-quality DNA suitable for a wide range of molecular applications.

Optimized for blood and bone marrow-based samples, the protocol uses advanced magnetic bead-based technology to automate the entire workflow, including lysis, DNA binding, washing elution and quantification. This automation eliminates labor-intensive costs that eliminate both the need to transfer specimens between multiple instruments and manual pipetting, filling plates with reagents, and sample tracking.

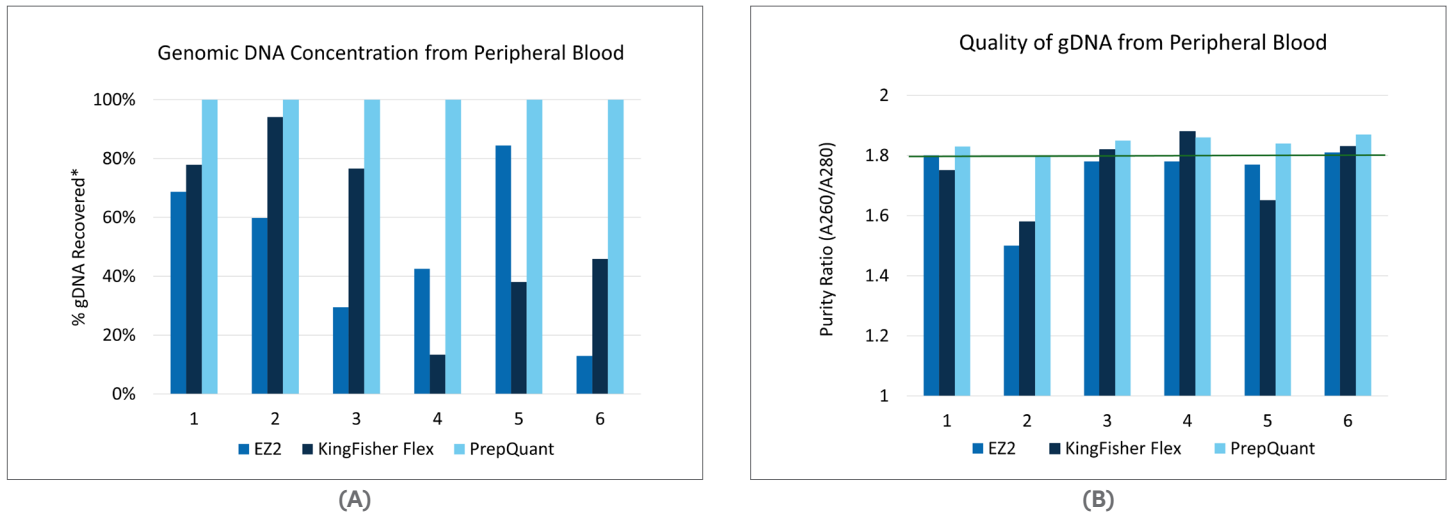
This kit delivers reliable gDNA yield, high purity, and integrity, supporting downstream molecular applications such as PCR, qPCR, and NGS.



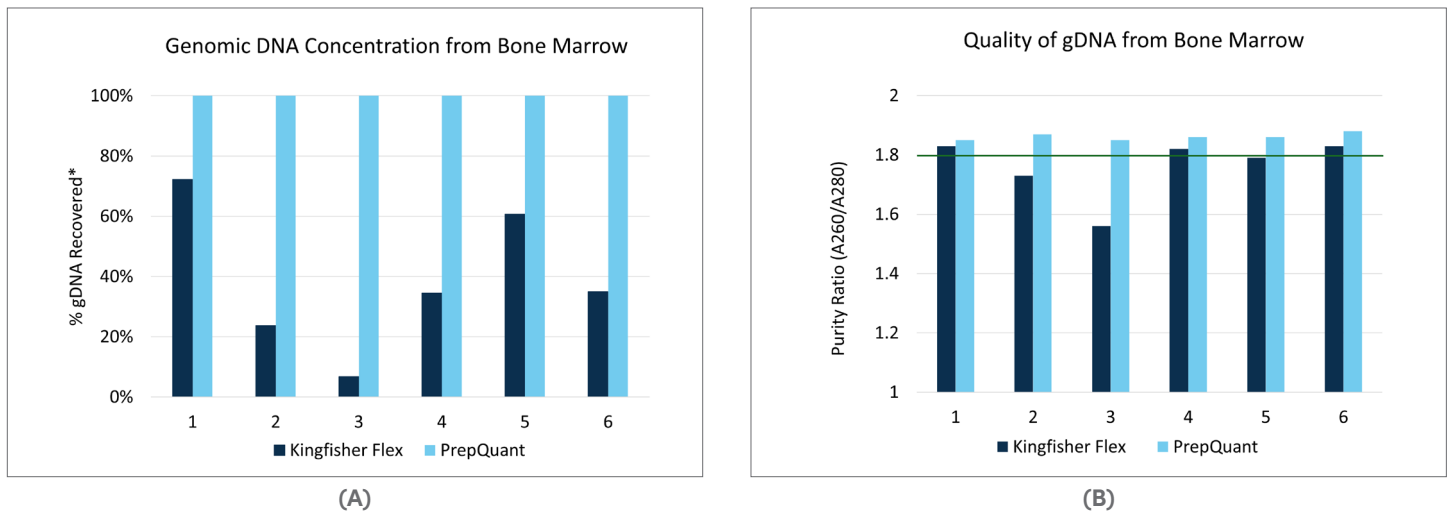
Features	Specifications
Specimen Type	400 µL of Peripheral Blood or Bone Marrow
Elution Volume	100 µL
Concentration Range*	59 - 171 ng/µL
Yield Range*	6 - 17 µg
Reagent Type	Pre-filled Cartridges
Extraction and Concentration Technology	Magnetic Bead-based
Quantification Technology	Fluorescence-based
Sample Throughput	1 - 24
Processing Time	~ 90 mins
Storage Conditions	Room Temperature

\* Values represent 95% of 546 pooled peripheral blood specimens, each with an average input of 5 million cells, run with Genomic DNA EQ 400 kits.

# Genomic DNA Performance Data



**Figure 1:** PrepQuant yield and quality outperforms comparable methods. Six peripheral blood samples evaluated for total DNA yield (A) quantified using Qubit fluorometer, and DNA quality, (B), purity assessed by NanoDrop A260/A280 ratios. Genomic DNA was isolated from matched samples using the PrepQuant Genomic DNA EQ 400 Kit and comparable magnetic bead-based systems from Thermo Fisher Scientific and QIAGEN following manufacturers' recommended protocols.



**Figure 2:** PrepQuant yield and quality outperforms comparable methods. Six bone marrow samples evaluated for total DNA yield (A) quantified using Qubit fluorometer, and DNA quality, (B), purity assessed by NanoDrop A260/A280 ratios. Genomic DNA was isolated from matched samples using the PrepQuant Genomic DNA EQ 400 Kit and a comparable magnetic bead-based system from Thermo Fisher Scientific following manufacturer's recommended protocol.

\* Concentration of gDNA (ng/μL) recovered by KingFisher Flex and/or EZ2 relative to PrepQuant

## Ordering Information

Catalog Number	Product Description	Quantity
1100002	PrepQuant™ Genomic DNA EQ 400 Kit	48 Preps

