

vamPure™ Blood Nucleic Acid Extraction Kit

Fast and Efficient Magnetic Bead-Based Protocol

Liquid Biopsy Product Series: vamPure Blood Nucleic Acid Extraction Kit

BioChain's vamPure Blood Nucleic Acid Extraction kit allows for fast and efficient genomic DNA extraction from whole blood samples. The magnetic bead-based extraction protocol is also ideally suited for automation using open systems. DNA extracted using this kit is suitable for next generation sequencing (NGS), PCR, qPCR, and other applications.

Advantages & Features

- High DNA recovery and quality
- Short and scalable protocol
- Cost effective extractions
- Non-toxic chemicals
- Automatable on open systems

Competitive Yield Comparison

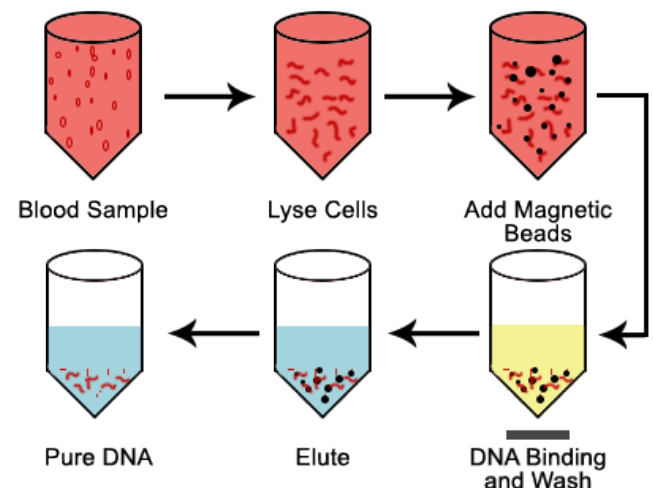
	Conc. (ng/μl)	A260/280	A260/230
Competitor T 1	92.07	1.87	1.92
Competitor T 2	97.24	1.90	2.16
Competitor T 3	96.22	1.91	2.22
vamPure 1	102.71	1.93	2.26
vamPure 2	108.47	1.94	2.23
vamPure 3	109.35	1.94	2.24

Table 1: 200 μl of whole blood from a single donor were extracted in triplicate using either Competitor T's kit or BioChain's vamPure Blood Nucleic Acid Extraction kit. The yield and purity were then analyzed. The results show that the vamPure kit is robust against the competition and the gDNA extracted consists of optimal purity.

Applications:

- Next Generation Sequencing (NGS)
- PCR and qPCR gene amplification
- Genomic DNA library construction
- DNA methylation studies
- Copy number variation (CNV) studies

Sample Work Flow



Quality Comparison of vamPure Against Competition

	CT1	CT2	CT3
Competitor T 1	22.80	22.58	22.70
Competitor T 2	22.66	22.75	22.67
Competitor T 3	22.90	22.70	22.58
vamPure 1	22.74	22.64	22.40
vamPure 2	22.75	22.50	22.66
vamPure 3	22.75	22.90	22.67

Table 2: qPCR was performed in triplicate using gDNA extracted from either Competitor T's kit or vamPure. The results demonstrate the quality of the gDNA obtained using vamPure is as pure as the competition while the yields remain superior (Table 1).

Scalability of vamPure

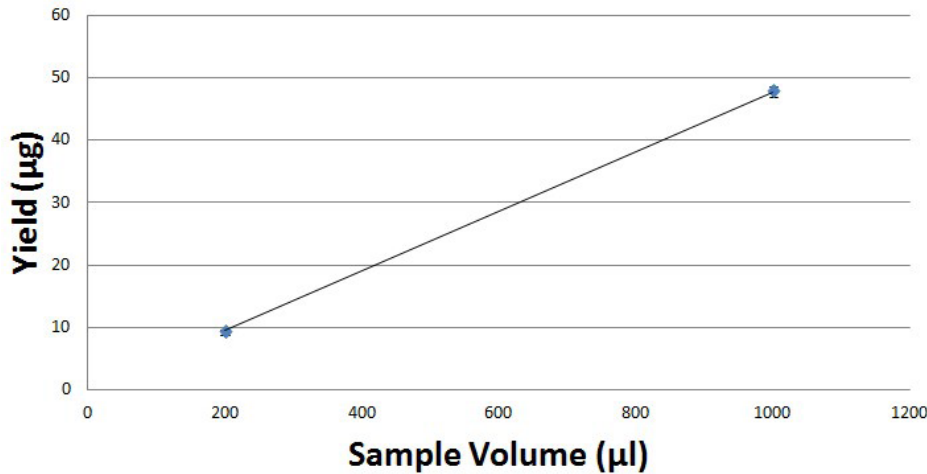


Fig. 1: gDNA was extracted from either 200 µl or 1 mL of input blood using vamPure. The resulting yields show that the kit is highly scalable

Catalog No.	Product	Unit
K5011720	vamPure™ Blood Nucleic Acid Extraction Kit	100 (200 µl) preps 10 (2 mL) preps
Related Products		
K5011610	cfPure® Cell Free DNA Extraction Kit	100 (1 mL) preps 10 (10 mL) preps
K5011625	cfPure® Cell Free DNA Extraction Kit	250 (1 mL) preps 25 (10 mL) preps
K5011625MA	cfPure® MAX Cell Free DNA Extraction Kit	50 (5 mL) preps 25 (10 mL) preps

Please inquire about a trial kit and bulk pricing.