1st BASE
YOUR RESEARCH, OUR BUSINESS

PrimeMag Blood DNA Extraction Kit (KIT-9240)

Fast magnetic bead purification for high-quality genomic DNA

One kit. Six sample types. About 30 minutes.

The PrimeMag Blood DNA Extraction Kit provides a rapid and reliable solution for isolating high-quality genomic DNA from whole blood, buffy coat, dried blood spot, cultured cells, buccal swab and saliva. Whole blood collected in EDTA, citrate or heparin tubes is compatible with the kit.

Advanced magnetic bead-based purification with optimized proprietary buffers enables efficient DNA binding, washing and elution without phenol/chloroform extraction or alcohol precipitation.

Purified genomic DNA is suitable for PCR, qPCR, genotyping, restriction enzyme digestion, Southern blotting, Sanger sequencing, NGS and other DNA-based analyses.

Why PrimeMag Blood DNA?

6	~30 min	1.8-2.0	≥1.5	10 & 96
Sample Types	Workflow	A260/A280	A260/A230	Prep Formats

Broad Sample Compatibility

- Whole blood (EDTA, citrate or heparin)
- Buffy coat
- Dried blood spot (DBS)
- Cultured cells
- Buccal swab
- Saliva

Designed for Reliable Performance

- High-purity genomic DNA for demanding downstream workflows
- High DNA integrity suitable for NGS applications
- Automation-ready compatibility with extraction platforms
- Fewer centrifugation steps for a smooth, lab-friendly workflow
- Up to 50% less plastic consumption compared with the referenced conventional workflow

Simple Magnetic-Bead Workflow

1 Lyse
Break open cells and release nucleic acids.

2 Bind
Capture DNA on PrimeMag magnetic beads.

3 Wash
Remove proteins, salts and other contaminants.

4 Elute
Recover purified genomic DNA in 50-100 µL.

1st BASE PrimeMag Blood DNA Extraction Kit

Product Code	KIT-9240-10/ KIT-9240-96
Input Amount	50 to 200 µL
Binding Mechanism	Paramagnetic Bead
Elution	50 to 100 µL
Duration	~30 minutes
Packaging Size	10, 96 preps
Delivery	Room temperature

Expected DNA Yield

Sample type	Input	Expected yield*
Whole blood	200 µL	2-8 µg
Buffy coat	50 / 200 µL	Up to 8 / 30 µg
DBS	2 punches	0.1-0.3 µg
Cultured cells	1×10^6	Up to 20 µg
Buccal swab	1 swab head	Up to 2 µg
Saliva	200 µL	Up to 6 µg

* Quantification by fluorescent reading.

Ready to simplify genomic DNA extraction?

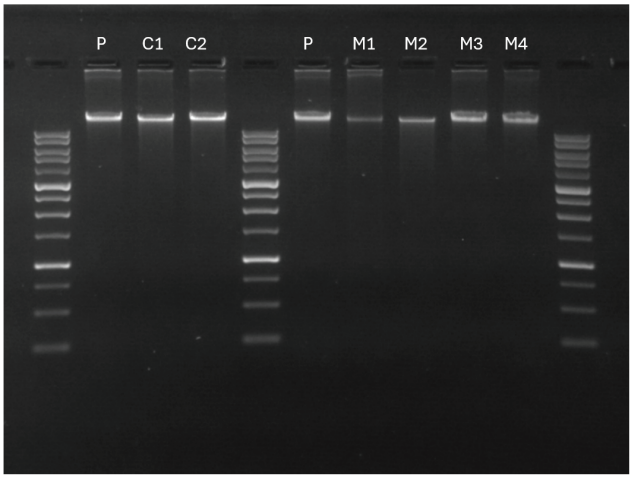
Contact us for product information and ordering.

Scan QR Code for More Details

Purified gDNA Integrity Across Sample Types

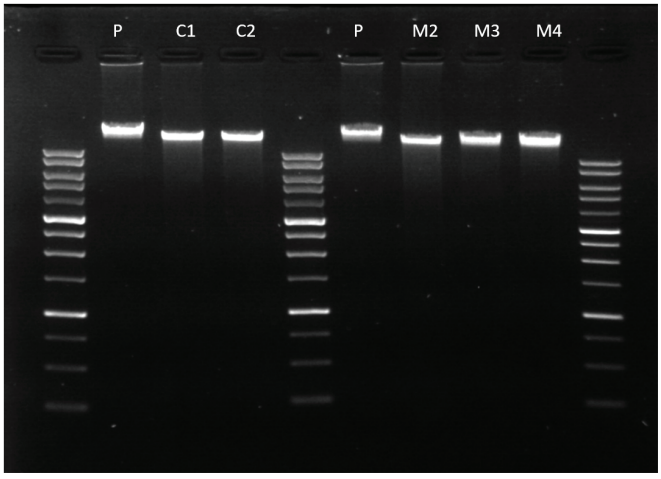
Representative agarose gel electrophoresis images of purified genomic DNA

Whole Blood in Heparin Tube



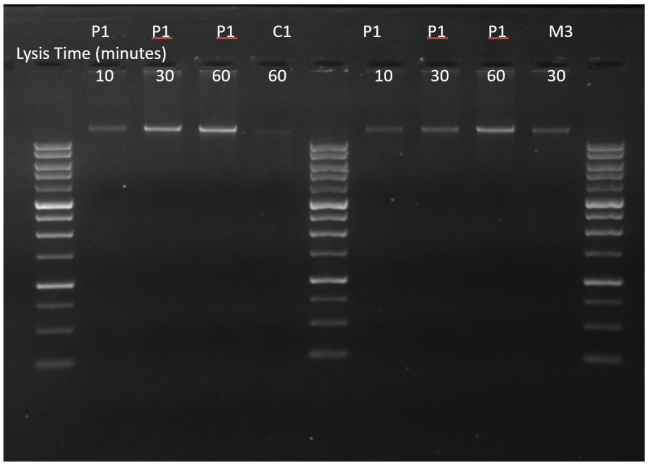
Fresh whole blood, 200 µL (EDTA tube)

Buffy Coat (50uL)



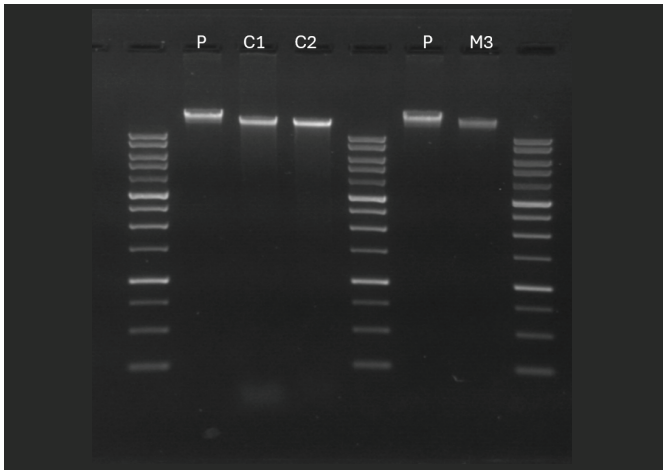
50 µL input

Dried Blood Spot (DBS)



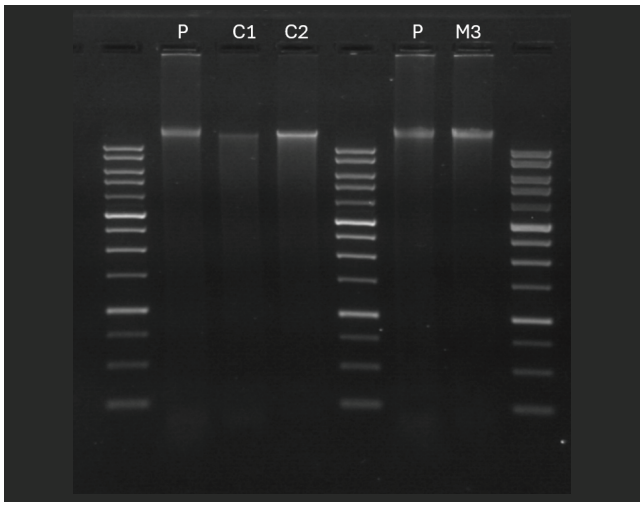
Two punches / cuttings

Cultured Cells



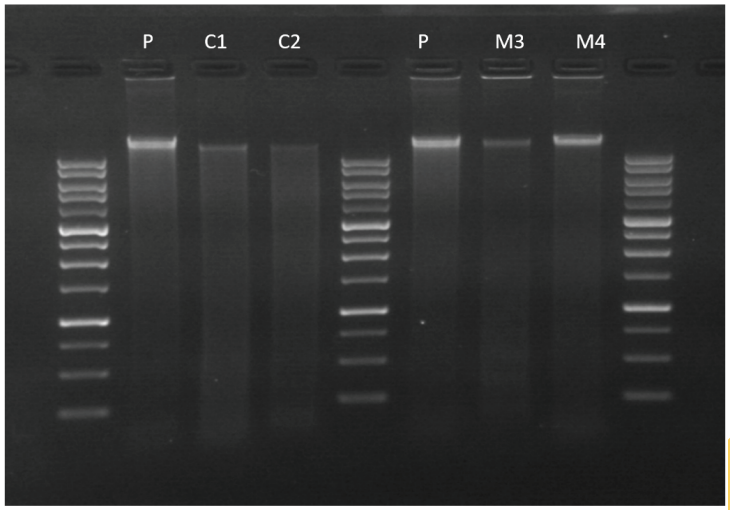
1 × 10^6 cells

Buccal Swab



One swab head

Saliva



200 µL input

P	1st BASE PrimeMag Blood DNA						
C1	1st BASE PrimeWay® Genomic II DNA			C2	Brand Q		
M1	Brand M	M2	Brand G	M3	Brand H	M4	Brand V

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