

# MagBeads FastDNA Kit for Blood

(Ready-to-Use for MagFlex96™)

Cat. No.: 119610096 (96 PREPS)



Scan QR code for more information from instruction manual

## Quick-Start Protocol

Revision March 27, 2026

This protocol is designed to extract genomic DNA from blood samples via **MagFlex96™ aNAP System**.

### Notes before starting:

- For prefilled kit, perform a quick spin to bring all droplets to the bottom of wells before removing the plate seal.
- Proteinase K needs to be stored at 2-8 °C upon arrival.
- Do not reuse MagFlex Mixing Sleeves. Always use the clean one to prevent potential contamination.

Sample preparation

### Work on MagFlex96™ System:

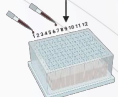
1. Prepare **200 µL whole blood** (fresh/frozen) in a clean 2 mL tube (not provided).
2. Add **20 µL Proteinase K** and vortex the sample to mix well.

#### Optional:

| Conditions                  | Recommendations  |
|-----------------------------|--|
| Sample < 200 µL             | Add sterile water to bring the total volume to 200 µL.   |
| Sample > 200 µL<br>≤ 500 µL | For every additional 100 µL of blood, increase the volumes of Proteinase K by 10 µL. (e.g.: 500 µL blood, add 50 µL Proteinase K). |



Add 20 µL Proteinase K into 200 µL sample, mix thoroughly



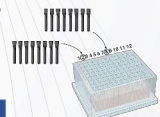
Load sample mix to MagFlex Plate MBD

3. Transfer the blood mixture into well #1/7 in **MagFlex Plate MBD**. Pipette up and down 10 times to thoroughly mix the sample with the buffer.

Program setting & running

4. Insert the MagFlex Mixing Sleeves to well #2/8 on **MagFlex Plate MBD** and place the plate onto MagFlex-96™ aNAP System plate holder.
5. Set the following program manually using the below parameters:

|    | Well | Process       | Volume | Time (s) |      |         | Mixing Speed | Temp (°C) | Pause |
|----|------|---------------|--------|----------|------|---------|--------------|-----------|-------|
|    |      |               |        | Mix      | Wait | Attract |              |           |       |
| 1  | 2/8  | Beads attract | 700    | 0        | 0    | 60      | 100          | RT        | OFF   |
| 2  | 1/7  | Lysis & Bind  | 1300   | 600      | 0    | 90      | 1500         | 55        | OFF   |
| 3  | 3/9  | Wash 1        | 700    | 120      | 0    | 60      | 3000         | RT        | OFF   |
| 4  | 4/10 | Wash 2        | 700    | 120      | 0    | 60      | 3000         | RT        | OFF   |
| 5  | 5/11 | Wash 3        | 700    | 60       | 0    | 60      | 3000         | RT        | OFF   |
| 6  | 2/8  | Wash 4        | 700    | 0        | 0    | 90      | 100          | RT        | OFF   |
| 7  | 6/12 | Elute         | 200    | 300      | 0    | 90      | 3000         | 55        | OFF   |
| 8  | 4/10 | Wash 2        | 700    | 150      | 0    | 60      | 3000         | RT        | OFF   |
| 9  | 5/11 | Wash 3        | 700    | 60       | 0    | 60      | 3000         | RT        | OFF   |
| 10 | 2/8  | Wash 4        | 700    | 0        | 0    | 60      | 100          | RT        | OFF   |
| 11 | 6/12 | Elute         | 200    | 360      | 0    | 110     | 2500         | 55        | OFF   |



Insert the MagFlex Mixing Sleeves to well #2 and #8 on MagFlex Plate MBD



6. Start the program.
7. Once the extraction is complete, transfer the eluted gDNA to 1.5 mL tubes (not provided).





MP Biomedicals

MP Biomedicals nucleic acid extraction kits are designed for simple, efficient, and rapid purification of DNA and RNA from various types of samples. Our wide range of instruments and reagent kits provide you a one-stop solution for your sample preparation works.



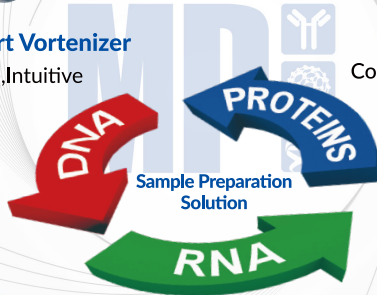
### FastPrep® and Smart Vortenizer

Powerful, Flexible, Intuitive



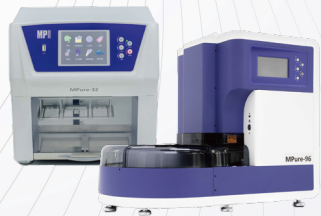
### Lysing Matrix

Complete, Quantitative lysing method



### MagBeads FastDNA / FastRNA Kits & SPINeasy™ Extraction Kits

Highly purified DNA / RNA / Protein



### Automated Nucleic Acid Purification (aNAP) Instruments

MPure-96™ Process up to 96 samples

MPure-32™ Process up to 32 samples



MP BIOMEDICALS

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