SPINeasy™ DNA Pro Kit for Feces

Cat. No.: 116547050 (50 PREPS)/116547000 (5 PREPS)

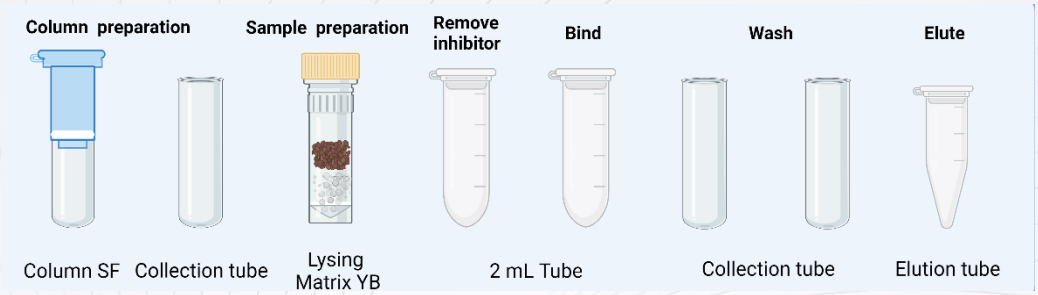
Quick-Start Protocol

Revision 1.0 Aug 2023

This protocol is designed to extract genomic DNA from fecal samples.

Notes before starting:

- Buffer SF2 needs to be stored at 2-8 ℃ upon reception.
- This protocol requires the use of a centrifuge capable of generating at least 15,000 g.
- For faster processing, pre-position the plasticwares used during the extraction as depicted below.



Column and sample preparation

1. Add **200 µL** of **Equilibration Buffer** to **Column SF** membranes to ensure its performance. Wait at least **1 min** and centrifuge for **10 sec @ maximum speed.** Transfer the Column SF into a new Collection tube (provided).
2. Weigh up to 250 mg of the feces and add it to a **Lysing Matrix YB** tube.
3. Add **900 µL** of **Buffer SF1**. Homogenize using **Fastprep 5 m/s for 35 sec** or **vortex at 2500-3000 rpm for 20 min**, centrifuge for **2 min @ maximum speed**.

Remove inhibitor

4. During the centrifugation, Add **200 µL** of **Buffer SF2** into a new 2 mL Tube (provided). Transfer the supernatant (~500-700 µL) while avoiding the pellet , vortex for 1 sec and centrifuge for **2 min @ maximum speed.**

Bind

5. Transfer the supernatant (~600-800 µl) into a 2 mL Tube (provided). Add **1 volume** of **Buffer SF3**, vortex for 1 sec.
   Note: if the supernatant and Buffer SF3 lysate is cloudy or include debris, centrifuge for 1 min **@ maximum speed** prior to binding to Column SF and transfer the supernatant as described below.
6. Apply **~750 µL** of the lysate to Column SF, centrifuge for **10 sec @ 15,000 g** and discard the flow-through. Repeat the process until all the lysate has passed through.

Wash

7. **1st wash.** Transfer Column SF into a new Collection tube (provided). Add **700 µL** of **Buffer SF4** to the center of the column, centrifuge for **10 sec @ 15,000 g**. Discard the flow-through and place Column SF back into the same Collection tube.
8. **2nd wash.** Add **700 µL** of **Buffer SF5** to the center of the column and centrifuge for **30 sec @ ≥15,000 g**.
9. **Column drying.** Transfer Column SF into a new Collection tube (provided), centrifuge for **1 min @ maximum speed**.

Elute

10. **Elution.** Transfer the Column SF into a new Elution tube (provided). Add **100 µL of Buffer SF6** directly to the column membrane, wait at least **1 min** and centrifuge for **1 min @ ≥15,000 g**. The DNA sample is now ready for downstream applications.

Note: For more concentrated sample, elute with 50 µL of Buffer SF6.

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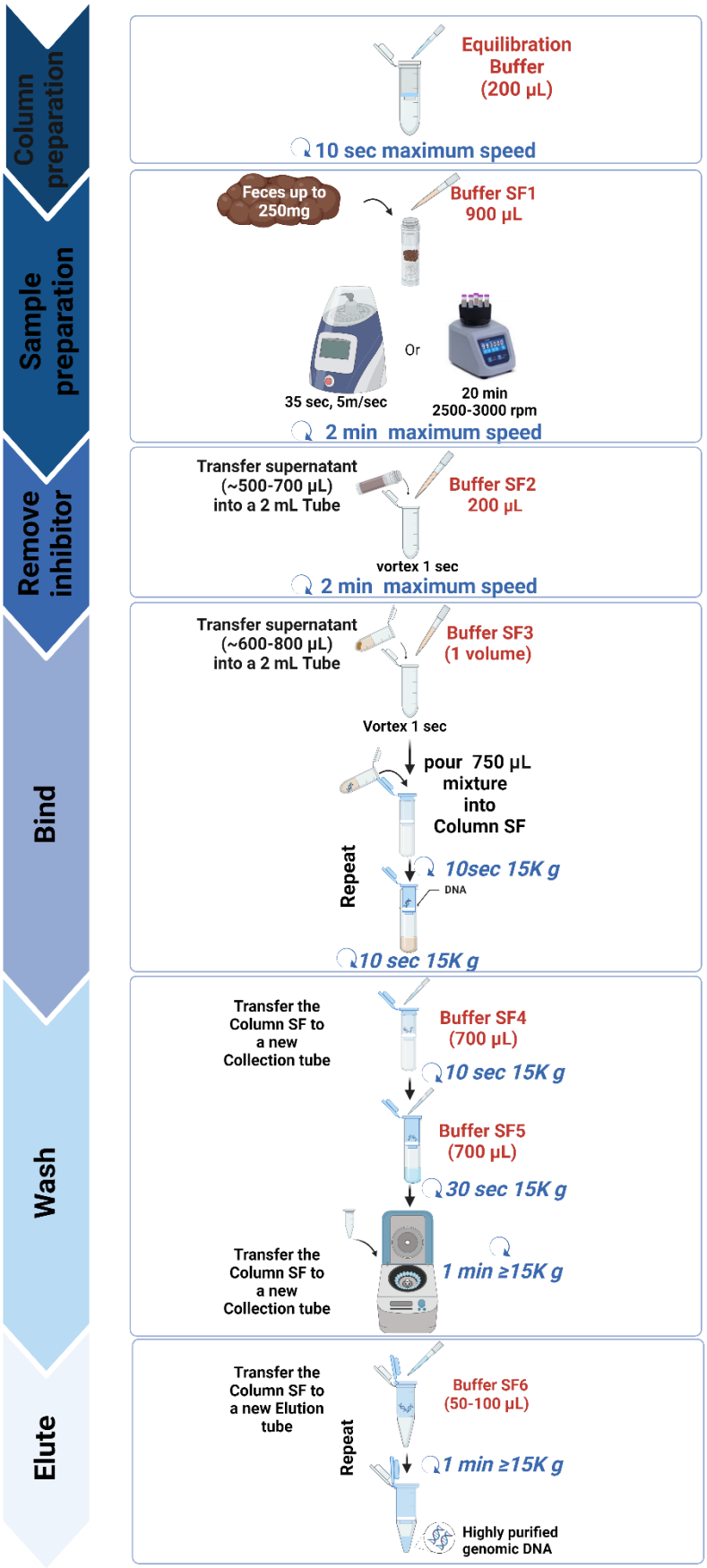

Scan for detailed instruction manual

MP BIOMEDICALS
APAC: +65 6775 0008 | custserv.ap@mpbio.com
EUROPE: 00800 7777 9999 | custserv.eur@mpbio.com
AMERICAS: 800 854 0530 | custserv.na@mpbio.com
Learn more at www.mpbio.com