

SPINeasy™ DNA Kit for Tissue (Without Lysing Matrix)



Cat. No.: 116559050 (50 PREPS) / 116559000 (5 PREPS)

Quick-Start Protocol

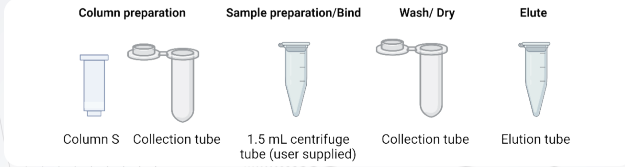
Revision Nov 2023



Scan QR code for more information
from instruction manual

Notes before starting:

- Add 12 mL (1.2 mL for sample kit) of absolute ethanol into **Buffer TD3** and mark the bottle.
- Add 50 mL (5 mL for sample kit) of absolute ethanol into **Buffer TD4** and mark the bottle.
- This kit requires the use of a centrifuge capable of generating at least 14,000 g to obtain optimal results. Use the maximum speed available if 14,000 g is not feasible.
- This kit can also be used with a vacuum manifold for the binding and wash step. Please refer to the instruction manual for more details.



Column preparation

Optional: Column preparation:

Note: Column preparation is recommended when higher DNA yield is desired or when column performance is reduced after long-term storage.

1. Pipette **200 µL Equilibration Buffer** into **Column S** (assembled with **Collection tube**). Incubate for **1 min** at room temperature and centrifuge the column for **30 sec @ 14,000 g**.
2. Keep the columns aside for later use (The treated Columns S can be stored at 2-8 °C for up to 7 days, if required).

Sample preparation

DNA isolation protocol:

1. Weigh and cut tissue (up to 10 mg for spleen tissue, up to 30 mg for other tissue) into small pieces and place in a clean 1.5 mL microcentrifuge tube.™
2. Add **200 µL Buffer TD1** and **20 µL Proteinase K** into the tissue sample tube, vortex for **5 sec** to mix well. Briefly spin down the mixture.
3. Incubate the tube at **56 °C** for **1-3 hours** or until the tissue is completely dissolved. Briefly spin down the mixture.
4. Add **4 µL RNase A**, mix well and incubate at **room temperature** for **2 min**. Vortex for **5 sec** and spin down briefly.

Bind

5. Add **500 µL Buffer TD2** into the lysate, mix thoroughly by pipetting up and down for **10 times** or vortex for **10 sec**. Briefly spin down the mixture.
6. Assemble Column S onto a clean Collection tube.
7. Load all the mixture (~**700 µL**) into Column S. Centrifuge for **30 sec @ 14,000 g**. Discard flow through and place the column back into the same Collection tube.

Wash

8. Add **500 µL Buffer TD3** onto the center of the column, centrifuge for **30 sec @ 14,000 g**. Discard flow through and place the column back into the same Collection tube.
9. Add **500 µL Buffer TD4** onto the center of the column, centrifuge for **30 sec @ 14,000 g**. Discard flow through and place the column back into the same Collection tube (**Repeat this step once**).
10. Transfer the column to a **new** Collection tube and spin for **2 min @ maximum speed**.

Elute

11. Transfer the column to **Elution tube**. Add **50-100 µL Buffer TD5** onto the center of the column, wait for **2 min** and centrifuge for **2 min @ 14,000 g**. Purified DNA are now ready for downstream applications.

Optional: Perform a second elution step with further **50-100 µL Buffer TD5** will increase yields by up to 20%.

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Flow-Chart

Column
preparation

Optional:
Incubate 1 min at
room temperature

⌚ 14,000 g, 30 sec



Equilibration Buffer
200 µL

Sample preparation



Weigh tissue samples and
add them into a 1.5 mL tube



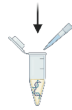
Buffer TD1 200 µL
Proteinase K 20 µL
Mix well

⌚ Quick spin



Incubate at 56 °C
for 1 ~ 3 hrs
vortex
intermittently

⌚ Quick spin



RNase A 4 µL
Mix well
Incubate at RT for 2 min

⌚ Quick spin

Bind



Buffer TD2 500 µL
Mix well

⌚ Quick spin



Load all the mixture
into Column S with
Collection tube

⌚ 14,000 g, 30 sec

Wash



Buffer TD3 500 µL

⌚ 14,000 g, 30 sec



Buffer TD4 500 µL

⌚ 14,000 g, 30 sec

Repeat
once

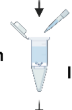
Transfer the column to a
new Collection tube



⌚ maximum speed, 2 min
Column drying

Elute

Transfer the column
to Elution tube



Buffer TD5 50-100 µL
Incubate at RT for 2 min

⌚ 14,000 g, 2 min



Highly purified
genomic DNA



MP BIOMEDICALS

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