SPINeasy 96-Well DNA Kit for Tissue

Cat. No.: 116559096 (96 PREPS) / 116559496 (4×96 PREPS)

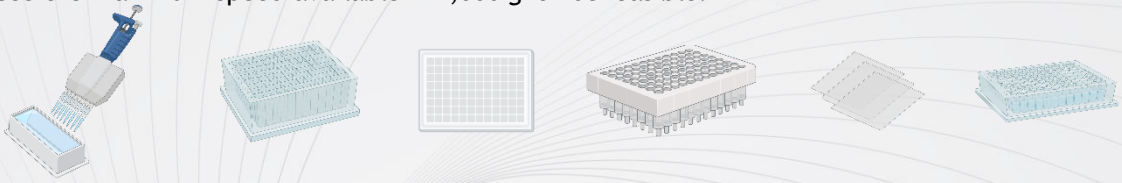
Quick-Start Protocol

Revision Mar 2024

Scan QR code for more information from instruction manual

Notes before starting:

- Add 24 mL (94 mL for 4×96 PREPS) of absolute ethanol into **Buffer TD3** and mark the bottle.
- Add 100 mL (384 mL for 4×96 PREPS) of absolute ethanol into **Buffer TD4** and mark the bottle.
- The SPINeasy 96-Well DNA Kit for Tissue requires the use of a swing bucket centrifuge capable of generating at least 4,000 *g* to obtain optimal results. Use the maximum speed available if 4,000 *g* is not feasible.



100-1000 µL multichannel pipette and reservoir | Deep-well Plate | Sealing Mat | 96 DNA Plate M | Sealing Film | Elution Plate

Sample preparation

1. Weigh and cut tissue (up to 30 mg) into small pieces and place into the bottom of a clean **Deep-well Plate**.
2. Pipette **20 µL Proteinase K** into the bottom of Deep-well Plate.
3. Add **200 µL Buffer TD1** and seal the Deep-well Plate using **Sealing Mat**.
4. Incubate the plate at **56 °C** for **1-3 hours** in a Water bath or Incubator oven until the tissue is completely dissolved. Vortex occasionally during incubation to disperse the tissue.
5. Centrifuge briefly **@ 4000 *g*** to bring down the lysate.
6. Remove the seal and add **4 µL RNase A**. Seal the plate with the same Sealing Mat and mix thoroughly by vortexing for **15 s**. Incubate at room temperature for **5 min**. Centrifuge briefly **@ 4000 *g***.

Note: Adding RNase A could be omitted if trace amount of RNA is allowed in the final product or the tissue sample has low RNA content (e.g. fat, muscle and skin).

Bind

7. Remove the seal and add **500 µL Buffer TD2.** Seal the plate with the same Sealing Mat and mix thoroughly by vortexing for **15 s**. Centrifuge briefly **@ 4000 *g***.
8. Assemble **96 DNA Plate M** onto a clean Deep-well Plate.
9. Load all the mixture (~700 µL) into 96 DNA Plate M. Seal the plate with a **Sealing Film** and centrifuge for **3 min @ 4,000 *g***. Discard flow through and place the 96 DNA Plate M back into the same Deep-well Plate.

Wash

10. Remove the seal and add **500 µL Buffer TD3** into 96 DNA Plate M. Seal the plate with a new Sealing Film and centrifuge for **3 min @ 4,000 *g***. Discard flow through and place the 96 DNA Plate M back into the same Deep-well Plate.
11. Remove the seal and add **500 µL Buffer TD4** into 96 DNA Plate M. Seal the plate with a new Sealing Film and centrifuge for **3 min @ 4,000 *g***. Discard flow through and place the 96 DNA Plate M back into the same Deep-well Plate. (repeat this step once)
12. Remove the seal and dry the plate by centrifuging for **10 min @ >4,000 *g*** without sealing the plate.

Elute

13. Transfer the 96 DNA Plate M onto a clean **Elution Plate**. Add **100 µL Buffer TD5** directly to the membrane of the 96 DNA Plate M and seal with a new sealing film. Incubate for **2 min at room temperature** and centrifuge **@ >4,000 *g*** for **5 min**. The purified gDNA is now ready for downstream applications.

Optional: Repeat the elution step (step 13) to the same Elution plate for retrieval of higher yield.

Note: This Kit can also be used with a vacuum manifold for bind and wash step. Please refer to the instruction manual for more details.

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Sample preparation

Weigh and cut tissue samples and add them into a Deep-well Plate

Proteinase K 20 µL
Buffer TD1 200 µL
Seal the plate

Incubate at 56 °C for 1 ~ 3 hrs
Vortex occasionally
Quick spin

RNase A 4 µL
Seal the plate
Mix well
Incubate at RT for 5 min
Quick spin

Bind

Buffer TD2 500 µL
Seal the plate
Mix well
Quick spin

Centrifuge

Place the 96 DNA Plate M on a clean Deep-well Plate

Add lysate
Seal the plate
4,000 g, 3 min

Vacuum manifold

Place the 96 DNA Plate M on an assembled vacuum manifold

Add lysate
Seal the plate
Apply vacuum

Wash

Centrifuge

Buffer TD3 500 µL
Seal the plate
4,000 g, 3 min

Repeat once

Buffer TD4 500 µL
Seal the plate
4,000 g, 3 min

Vacuum manifold

Buffer TD3 500 µL
Seal the plate
Apply vacuum

Buffer TD4 500 µL
Seal the plate
Apply vacuum

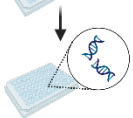
Repeat once

>4,000 g, 10 min
without sealing the plate

Elute

Transfer the 96 DNA Plate M to a clean Elution Plate

Buffer TD5 100 µL
Incubate at RT for 2 min
>4,000 g, 5 min



Highly purified genomic DNA