GSure® Fast Tissue Kit

G46221A 250 preparations

Store at Room Temperature

Procedure:

1. Take up to 50mg of tissue sample in a fresh microfuge tube.
2. Add 250µl Buffer GDTI1. Incubate the tube at 70^{0}C for 15 min and vortex after every 2 min. Color may form depending on tissue type.
3. Add 250µl Buffer GDTI2 and mix by inverting the tube 4–6 times. Place the tube at 70^{0}C again for another 15 minutes. Color may form depending on tissue type.
4. Add 350µl Buffer GDTI3 and invert the tube immediately. Shake vigorously to mix the solutions, **DO NOT VORTEX AT THIS STAGE**. Vortex may cause shearing of genomic DNA.
5. Centrifuge for 10 minutes at 13,000 rpm (~8500xg) in a table-top microcentrifuge. A compact pellet will form.
6. Apply the supernatant to the GMini Spin Column by decanting or pipetting. ***Avoid mixing of cell debris with the supernatant*** *as* this may clog GMini spin Column thus lowering the DNA yield.
7. Centrifuge at 13,000 rpm (~8500xg) for 30–60 s. Discard the flow-through.
8. Wash GMini Spin Column by adding 600µl Membrane Wash Buffer* and centrifuging for 30–60 s as previously.
9. Discard the flow-through.
10. Repeat washing step.
11. Discard the flow-through, and centrifuge for an additional 2 minutes to remove residual wash buffer from membrane.

> ***This step is extremely important to ensure complete removal of ethanol. Presence of ethanol in purified DNA may inhibit subsequent enzymatic reactions.***

12. Place the GMini Spin Column in a clean 1.5 ml microcentrifuge tube (not provided). To elute DNA, add 50µl nuclease-free Water (provided) to the center of each GMini Spin Column, let stand for 1 minute, and centrifuge for 1 minute at maximum speed (~8500Xg) on a table top microcentrifuge.
13. Discard the column and collect the eluted DNA present in microcentrifuge tube.

- If required, increase the volume of GDTI1, GDTI2 and GDTI3 accordingly.
- **If any sediment found in any of the isolation buffers, warm the containers at 50°C until it dissolves.**

Kit Contents:

GDTI1 Buffer	**: 75 ml**
GDTI2 Buffer	**: 75 ml**
GDTI3 Buffer	**: 100 ml**
Membrane Wash Buffer	**: 75ml X 2**
Spin Column	**: 50pcs X 5**
Nuclease-free Water	**: 15 ml**

*Reconstitution of Membrane Wash Buffer:

Before using the kit for first time, add 45ml of absolute ethanol (molecular biology grade) with the provided wash buffer. Mix thoroughly by shaking. Once ethanol added, tighten the cap properly after each use.