

Gel recovery

ABSTRACT

This protocol is used to recycle the correct tape from the recycled adhesive.

BEFORE STARTING

Prepare SPW Buffer and Binding Buffer reagents

1. Cut off the correct strip in the gel and put it into the EP tube
2. Add the same volume of Binding Buffer as the glue, and keep it at 50~60 °C until the glue dissolves

Oscillate once every 2-3 minutes during the process

3. Insert a HiBind® DNA Mini Column into a 2 mL Collection Tube.
4. Inhale the mixed liquid into the HiBind® DNA Mini Column
5. Centrifuge at 10000x g speed for 1 minute.
10000 x g, Room temperature, 00:01:00
6. Discard the filtrate and reuse the collection tube.
7. Add 300 µL Binding Buffer
8. Centrifuge at maximum speed for 1 minute.
15000 x g, Room temperature, 00:01:00
9. Add 700 µL SPW Buffer
10. Centrifuge at maximum speed for 1 minute.
15000 x g, Room temperature, 00:01:00
11. Discard the filtrate and reuse collection tube.
12. Repeat step 9~11 once.
13. Centrifuge the empty HiBind® DNA Mini Column for 2 minutes at maximum speed to dry the column matrix.
14. Transfer the HiBind® DNA Mini Column to a clean 1.5 mL microcentrifuge tube.
15. Add 30-100 µL Elution Buffer or sterile deionized water directly to the center of the column membrane.

The efficiency of eluting DNA from the HiBind® DNA Mini Column is dependent on pH. If using sterile deionized water, make sure that the pH is around 8.5.

16. Let sit at room temperature for 1 minute.
17. Centrifuge at maximum speed for 1 minute.
15000 x g, Room temperature, 00:01:00

This represents approximately 70% of bound DNA. An optional second elution will yield any residual DNA, though at a lower concentration.

18. Suck out the solution from the tube and re-add it to the center of the column membrane to give a second centrifuge.
15000 x g, Room temperature, 00:01:00
19. Test the concentration and purity of DNA using NanoDrop.
20. Store DNA at -20°C.