

9. Gel Purification

Material

TIANGEN Universal DNA Purification Kit

Gel with DNA sample

Double Distillation Water (ddH₂O)

Centrifuge

Shaker

Water Bath

Steps

- ① Cut the gel that DNA sample lies with a knife.
- ② Put the gel into an EP tube, add PC solution, which has the same volume as the gel. Shake the tube at 50°C for 10min till the gel is completely dissolved and the solution color is yellow.
- ③ Insert the adsorption column into a collection tube, add 500μl BL equilibrium solution, centrifuge at 13,400G for 1min, discard the filtrate and reuse the collection tube.
- ④ Add the solution to the adsorption column, centrifuge at 13,400G for 1min, discard the filtrate and reuse the collection tube.
- ⑤ Add 600μl PW rinse solution, let stand for 5min, centrifuge at 13,400G for 1min, discard the filtrate and reuse the collection tube.
- ⑥ Repeat step⑤.
- ⑦ Put the adsorption column into a clean EP tube, centrifuge at 13,400G for 2min, discard the filtrate. Open the cover of adsorption column and dry it out in the air for 5min.
- ⑧ Add 100μl ddH₂O (preheated to 70 °C in advance), let stand for 2min, and centrifuge at 13,400G for 2 min.
- ⑨ Add filtrate to the adsorption column again, let stand for 2min, and repeat step⑧.
- ⑩ Store the filtrate -20 °C.

Note

Weight the gel before adding PC solution, 0.1g gel approximately equal to 100μl solution.