Protocol for Gel Purification

·Material

TIANGEN Universal DNA Purification Kit
Gel with DNA sample
Double Distillation Water (ddH_2O)
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℃ 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 ddH_2O (preheated to 70 ℃ 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 ℃.

·Note

① Be careful of the UV rays when cutting the gel.
② Weight the gel before adding PC solution, 0.1g gel approximately equal to 100μl solution.