## Protocol for DNA purification from reaction mixture

Here is a suggested protocol; this protocol can be used to purify a wide range of DNA fragments with recoveries of >80%. The bolded should be noticed for a nice DNA extraction.

- 1. Put EB (elution buffer) or ddwater at 65 degree water bathing.
- 2. Add a 3:1 volume of Binding Buffer to the reaction mixture (e.g., for every 100 ul of reaction mixture, add 300 ul of Binding Buffer). Mix thoroughly.

Check the color of the solution. A yellow color indica tes an optima I pH for DNA binding. If

the color of the solution is orange or violet, add 10 ul of 3 M sodium acetate, pH

- 5.2 solution and mix. The color of the mix will become yellow.
- 3. Pour the solution to a fresh adsorption column. Centrifuge at 13000rpm for 1 min.

Pour off the liq uid in the collection tube. For critical samples, repeat the operation above.

4. Add 600 ul washing buffer (WB) before centrifugation at 13000 rpm for 1 min.

Pour off the liq uid into beaker.

- 5. Centrifuge at 13000rpm for 10 min to spin the ethanol down.
- 6. Put the column into a fresh EP tube. If necessary air—dry the pellet for 10-15 min to

avoid the presence resid ual ethanol in the purified DNA solution. Resid ual of

ethanol in the DNA sample may inhibit downstream enzymatic reactions.

- 7. Add 30-50 ul elution buffer (EB) to elute the DNA.
- 8. Get 5 ul of the eluted sample to identify with electrophoresis.

## Note:

1. If a large amount of DNA is purified or if the volume of the binding reaction is

greater than 1.5 ml increase the incubation time of the binding step to 15 min.

## References:

<sup>\*</sup>Current protocols in molecular biology