Purpose: Extract plasmid DNA (smaller quantity)

QIAprep Spin Miniprep Kit Protocol

a. Centrifuge 3 mL of bacterial overnight culture in two separate Eppendorf tubes (1.5 mL in each) at 8,000 rpm for 3 minutes at room temperature.
b. Discard the supernatant and resuspend pelleted bacterial cells in one tube with 250 µL Buffer P1 and transfer to the other and resuspend until one eppendorf tube contains the pelleted cells resuspended in 250 µL Buffer P1.
c. Add 250 µL of Buffer P2 and invert 5 times.
d. Add 350 µL of Buffer N3 and immediately mix by inverting 5 times.
e. Centrifuge for 10 minutes at 13,000 rpm.
f. Micropipette 800 µL of the clear supernatant into a spin column and centrifuge for 60 seconds and discard the excess liquid.
g. Add 500 µL of PB and centrifuge the spin columns for 60 seconds. Discard the flow through.
h. Add 750 µL of PE to the spin columns, centrifuge for 60 seconds, and discard the flow through.
i. Centrifuge the spin columns again for 60 seconds to remove residual wash buffer and discard the flow through.
j. Transfer the spin columns to a clean eppendorf tube and add 50 µL of EB to the center of the spin column to elute the DNA.
k. Allow the spin column to stand for one minute and then centrifuge for one minute.
l. Record the concentrations for each sample.