FavorPrep TM Plasmid DNA Extraction Mini Kit protocol

- 1. Transfer 1-4 mL of bacterial culture to a microcentrifuge tube.
- 2. Bacterial cells were harvested by centrifugation at 14 K for 1 min and the supernatant was discarded.
- 3. Add 200 μ L of FAPD1 Buffer (RNase A added) to the pellet and the cells were resuspended.
- 4. Add 200 μ L of FAPD2 Buffer and gently invert the tube 10 times to lyse the cells and incubated at room temperature for 2 min.
- 5. Add 300 μ L of FAPD3 Buffer and immediately invert the tube 10 times. .
- 6. Centrifuge for 5 minutes at full speed. During centrifuging, place a FAPD Column in a Collection Tube.
- 7. Transfer the supernatant carefully to the FAPD Column. Centrifuge for 30 seconds then discard the flow-through and place the FAPD Column back in the Collection Tube.
- 8. Add 400 μ L of W1 Buffer to FAPD Column. Centrifuge for 30 seconds then discard the flow-through and place the FAPD Column back in the Collection Tube.
- Add 600 μL of Wash Buffer (96%-100% ethanol added) to FAPD Column.
 Centrifuge for 30 seconds then discard the flow-through and place the FAPD Column back in the Collection Tube.
- 10. Centrifuge again for an additional 3 min to dry the column.
- 11. Place FAPD Column to a new 1.5 mL microcentrifuge tube.
- 12. Add 50 μ L 100 μ L of Elution Buffer or ddH₂O to the membrane center of FAPD Column. Stand the column at room temperature for 2 minutes.
- 13. Centrifuge for 1 min to elute plasmid DNA.
- 14. Purified plasmid DNA was stored at 4°C or -20°C.

Invitrogen PureLink® Quick Plasmid Miniprep Kits

protocol

- 1. Centrifuge 1–5 mL of the overnight LB-culture. Remove all medium.
- 2. Add 250 μ L Resuspension Buffer (R3) with RNase A to the cell pellet and resuspend the pellet until it is homogeneous.
- 3. Add 250 μ L Lysis Buffer (L7). Mix gently by inverting the capped tube until the mixture is homogeneous. (Do not vortex.)
- 4. Incubate the tube at room temperature for 5 minutes.
- 5. Add 350 μ L Precipitation Buffer (N4). Mix immediately by inverting the tube, or for large pellets, vigorously shake the tube until the mixture is homogeneous. (Do not vortex.)
- 6. Centrifuge the lysate at >12,000 × g for 10 minutes.
- 7. Load the supernatant from step 6 onto a spin column in a 2-mL wash tube. Centrifuge the column at 12,000 × g for 1 minute. Discard the flow-through and place the column back into the wash tube.
- 8. Optional Wash. (Recommended for endA $^+$ strains). Add 500 μ L Wash Buffer (W10) with ethanol to the column. Incubate the column for 1 minute at room temperature. Centrifuge the column at 12,000 × g for 1 minute. Discard the flow-through and place column back into the wash tube.
- 9. Add 700 μ L Wash Buffer (W9) with ethanol to the column. Centrifuge the column at 12,000 × g for 1 minute. Discard the flow-through and place the column into the wash tube. Centrifuge the column at 12,000 × g for 1 minute. Discard the wash tube with the flow-through.
- 10. Place the Spin Column in a clean 1.5-mL recovery tube. Add 75 μ L of preheated TE Buffer (TE) to the center of the column. Incubate the column for 1 minute at room temperature.
- 11. Centrifuge the column at 12,000 × g for 2 minutes. The recovery tube contains the purified plasmid DNA. Discard the column. Store plasmid DNA at 4°C (short-term) or store the DNA in aliquots at -20°C (long-term).