*DNA Isolation Protocol

A. Lysis

1. Suspend sample in 150 μl of TE Buffer.

2. Add 1 μ l of Ready-Lyse Lysozyme to each sample.

3. Incubate at 37°C overnight.

4. Add 150 μl of 2X T & C Lysis Solution to each sample and pipette up and down when adding.

5. Add 1 µl Proteinase K to each sample.

6. Incubate at 65°C for 30 minutes, vortexing briefly every 5 minutes.

7. Cool the samples to 37°C.

8. Place the samples on ice for 3-5 minutes and then proceed with Part B.

B. DNA Clean-up

1. Add 175 μ l of MPC Protein Precipitation Reagent to 300 μ l of lysed sample and vortex mix vigorously for 10 seconds.

2. Pellet the debris by centrifugation at 4° C for 10 minutes at \geq 10,000 x g in a microcentrifuge. <u>Place on ice immediately after centrifugation</u>.

3. Transfer the supernatant to a clean microcentrifuge tube and discard the pellet.

4. Add 500 μl of isopropanol to the recovered supernatant. Invert the tube 30-40 times.

5. Place on ice for 10 minutes

6. Pellet the DNA by centrifugation at 4° C for 10 minutes at \geq 10,000 x g in a microcentrifuge.

7. Pour off isopropanol, being careful not to lose pellet. Use a pipet tip to remove remaining isopropanol without dislodging the DNA pellet.

8. Rinse the pellet with 500 μ l 75% ethanol. Centrifuge briefly if the pellet is dislodged. Repeat rinse with additional 500 μ l 75% ethanol.

9. Remove residual ethanol.

10. Resuspend the DNA in 25 μl of TE Buffer.

*Protocol amended from Epicentre MasterPureTM DNA Purification Kit and Epicentre MasterPureTM Gram Positive DNA Purification Kit