DNA Protocol Gram (-): Negative

- 1.) Harvest Cells (max 2 x 10⁹ cells) and centrifuge for 10 minutes at 5000 x g (or 7500 rpm) remove supernatant.
- 2.) Added 180 µl of enzymatic ATL buffer.
- Add 20 μl of proteinase K and incubate for 55°C until cells completely lysis (30 minutes) (Vortex lightly between incubation to make sure cells are dispersed.)
- After incubation vortex for 15 seconds and add 200 μl of AL buffer to the sample, mix thoroughly by vortex again and incubate for 70°C for 10 minutes
- 5.) Add 200 µl of Ethanol (96-100%) to the sample, and (Vortex)
- 6.) Pipet mixture for step 6 into a DNeasy spin column placed in a 2ml collection tube. Centrifuge at >6,000 x g (or 8000 rpm) for 1 minute. <u>Discard flow-through and collection tube.</u>
- 7.) Place DNeasy spin column into a new 2ml collection tube. Add 500 μl of Buffer AW1 and centrifuge for 1 minute at > 6000 x g (or 8000 rpm) <u>Discard flow-through and collection tube.</u>
- 8.) Place DNeasy spin column into a new 2ml collection tube, add 500 μl of Buffer AW2, and centrifuge for 3 minutes at 20,000 x g (or 14,000 rpm) to dry the DNeasy membrane. <u>Discard flow-through and collection tube.</u>
- A.) Place DNeasy spin column into a new 1.5ml microcentrifuge tube. Pipet 200 μl of buffer AE directly onto the DNeasy membrane. Incubate at room temperature for 1 minute and then centrifuge for 1 minute at >6000 x g (or 8000 rpm) to elute. Save microcentrifuge tube 1
- B.) Using a new microcentrifuge tube Repeat step 9A. Save microcentrifuge tube 2