DNA isolation (genomic DNA)

- The buffer and spin column for this DNA isolation were taken from the QIAprep® Spin Miniprep Kit
- Resuspend the cells of the plate in 800 µl Buffer P1.
- Transfer the suspension in small tubes with beads.
- Use the ribolyser with 6200 rpm 3 x 60 seconds.
- Centrifuge at top speed for 3 minutes.
- Transfer 500 µl of the supernatant in a new 2 ml reaction tube.
- Add 500 µl of Buffer P2 and mix thoroghly by inverting the tube 6-8 times.
- Add 700 µl of Buffer N3 and mix thoroghly by inverting the tube 6-8 times.
- Centrifuge at top speed for 10 minutes.
- Apply the supernatant to the spin column by decanting or pipetting.
- Centrifuge at top speed for 30-60 seconds and discard the flow-through.
- Wash the spin column by adding 750 µl Buffer PE.
- Centrifuge for 30-60 seconds and discard flow-through.
- Wash again by adding 750 µl Buffer PE.
- Centrifuge for 30-60 seconds and discard flow-through.
- Centrifuge 2 minutes to remove residual wash buffer.
- Place the column in a clean 1.5 ml microcentrifuge tube. To elute DNA, add 20 µl H2O, incubate at room temperature for a few minutes and centrifuge at top speed for 1 minute. Repeat this step.