Picogreen quantification

Kit component: 20X TE Buffer, Quant-IT PicoGreen assay and lambda standard (100ngr/ul) Batch of 72 genotypes, use std curve with 8 points and ~8 blanks (use one of the blanks a std with 0 ngr/ul of DNA.

- 1. Prepare 20ml 1X TE Buffer using the 20X concentrated TE. Label and keep separate from other TE buffers. You need ~20ml for each batch of 72. Prepare 100ml by mixing 5ml 20X in 95 ml H_2O . Divide in 2 falcon of 50ml.
- 2. Prepare lambda DNA solutions (1:2 serial dilution) using the standard DNA provided by the kit and the 1X TE diluted in step 1*. Prepare std in excess in strip tubes, so you can use the multichannel pipette later.
- 3. Dilute the PicoGreen 1:200 in 1X TE for having a total volume of 18ml (90ul PicoGreen and 17910 ul 1X TE). You will need 17.6ml for the plate. Prepare in falcon tube and cover with aluminium foil.
- 4. Aliquote 200ul of solution in each well for std, samples and blanks. If the solution is not enough (i.e. error in pipetting) reduce the number of blanks.
- 5. Plate 3ul of STD and sample in the solution. Mix well or incubate 5 min RT
- 6. Read in plate reader at ~485nm excitation and ~525 nm emission. Calculate sample concentration based on standard curve.

* Standard concentration

- A 100ng/ul
- B 50 ng/ul
- C 25 ng/ul
- D 12.5 ng/ul
- E 6.25 ng/ul
- F 0 ng/ul
- G blank