# Workshop testing w/ Romie Tue 22 Jan 2013

Goal: run a successful PCR from QuickExtract-Isolated gDNA. Testing all old Genelaser primers.

EpiBio Quick Extract datasheet suggests the final QE solution contains 2-14 ng / uL gDNA and recommends 5 uL of solution in a 50 uL PCR reaction.

Bioneer AccuPower PCR PreMix datasheet suggests adding 5 - 50 ng template DNA in the PCR and 5 - 10 pMole primer to the 20 uL reaction volume.

#### **PCR Mix**

1 lyophilized Bioneer AccuPower 20 uL PCR PreMix1 uL 20 uM Primer Mix3 uL QuickExtract gDNA15 uL ddH2O

Sample	Source	Primers set
1	QuickExtract Mac - 1	rs713598
2	QuickExtract Mac - 1	rs7903146
3	QuickExtract Mac - 1	rs3057
4	QuickExtract Mac - 1	rs4680
5	QuickExtract Mac - 2	rs713598
6	QuickExtract Mac - 2	rs6152
7	QuickExtract Mac - 6 uL QE DNA, 12 uL ddH20	rs713598
8	QuickExtract Mac - 2	none - control

### **PCR Thermocycling Protocol**

Initial Denature - 5 mins @ 95 C (Note: inserted tubes when block was at 90 C) 30 cycles:

30s @ 95 C

60s @ 55 C

60s @ 72 C

Final extension - 5 mins @ 72 C

Lid: 110 C

#### 2% Agarose Gel, 50 mL

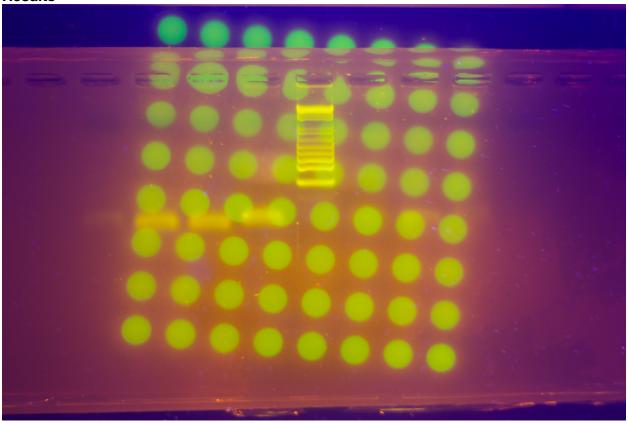
50 mL 1X TBE

1g Agarose

- microwave until clarified

## 10 uL of 10,000x GelGreen - 2x normal ratio for extra staining!

### Results



Sample 1 is visible to the left of the LED array, followed by samples 2-4. A 100 bp ladder is visible in the middle, followed by samples 5-8. There appear to be only primer bands at the middle of the gel, with no other PCR products visible. Interestingly, samples 5-8 present less intense bands than 1-4.