

PCR of genomic DNA

1. Mix the following in a 200 μL thin-walled PCR tube:
 - 5 μL genomic DNA
 - 2 μL forward primer, 25 μM
 - 2 μL reverse primer, 25 μM
 - 5 μL 10X PCR buffer (manufacturer)
 - 4 μL 25 mM MgCl_2
 - 1 μL 10 mM dNTP mix
 - 30.8 μL sterile water
 - 0.2 μL Taq polymerase
2. Perform PCR as follows:
 - 1 cycle: 94°C for 3 min
 - 25 cycles: 94°C for 30 sec
55°C for 30 sec
72°C for 1 min per kb product size
 - 1 cycle: 72°C for 10 min
 - 1 cycle: 4°C indefinitely
3. Analyze 5 μL of PCR on an agarose gel