

Fast, simple, and efficient mouse genotyping

Starting with tail, ear, or toe, complete mouse genotyping workflow in as little as 90minutes using Xpert directXtract PCR Kit

DNA extraction

► Total time: 15 minutes

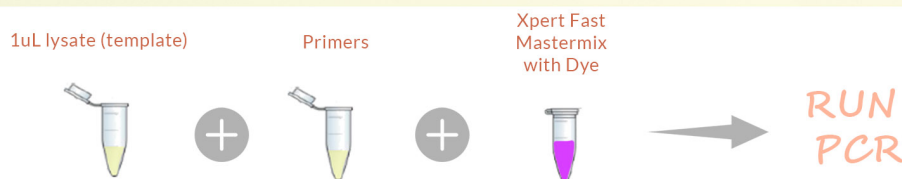
Preparation of lysis buffer (100uL/sample) consisting of buffer A and buffer B (supplied) and H₂O. Cover sample with lysis buffer and incubate 5 minutes at 75°C. Heat-inactivate 10 minutes at 95°C. Centrifuge 1 minute for pellet debris. Supernatant is the template for PCR amplification



PCR amplification

Total time: 60 minutes ◀

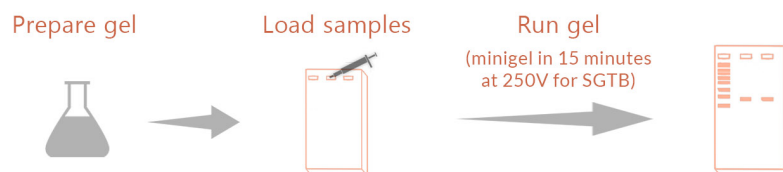
After centrifugation for pellet debris, the lysate is ready for PCR, (can be stored at -20°C for months). Taking advantage of the speed and inhibitor tolerance of Xpert Fast Hotstart Mastermix with Dye, PCR can be performed using only 15 seconds extension with great performance. It is recommended to test amplification from different dilutions of the lysate in order to set the best template/inhibitors ratio.



Electrophoresis Analysis

► Total time: 15 minutes

After PCR, results can be analysed by DNA Electrophoresis. A total run time of 15 minutes is achievable using our extremely fast and high definition SGTB DNA Electrophoresis Buffer.



The presented workflow includes Xpert directXtract (#GE60) for lysis and amplifications; and SGTB Buffer (GB01) for DNA electrophoresis. Other detection methods can be used, but we recommend SGTB for achieving the extreme time saving performance shown (90 min).