# DNA Isolation from Saliva FTA

## DNA extraction from saliva FTA using *forensic*GEM™

The following method is recommended for DNA extraction from FTA cards using *forensic*GEM™.

The method below is intended for a 96 well format. However, the same method is applicable for any number of samples using a PCR tube and a thermal cycler.

### Extraction Method

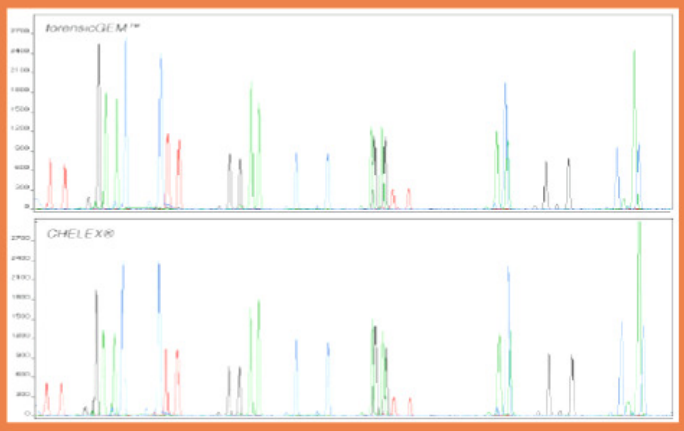
1. Add 1 x 1.2 mm FTA punch to each well of a microtitre dish [NOTE1].
2. Add 50 µl of *forensic*GEM™ buffer 3 and 1 µl of *forensic*GEM™ [NOTE1].
3. Incubate at 75 °C for 15 minutes.
4. Incubate at 95°C for 5 minutes [NOTE2].
5. Quantify the supernatant using Quantiblot or Quantifiler if required.

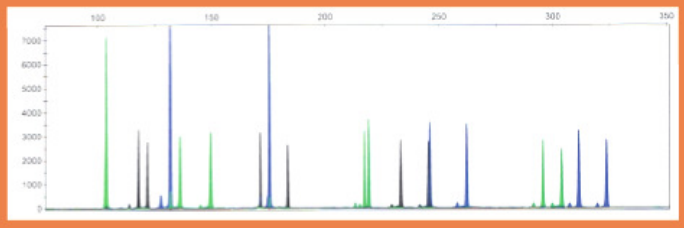
NOTE1: Larger punch sizes can be used with the same method. The yield will be proportionately higher. *forensic*GEM™ and buffer can also be added as a master mix.

NOTE2: 5 minutes is sufficient as long as ramping to temperature is rapid. For slow ramping, longer incubations should be used.

## SALIVA FTA

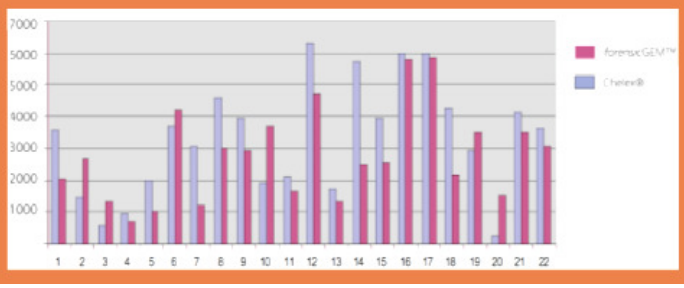
**The results below were from a PCR using 5 µl of an extraction derived from a single 1.2 mm FTA card punch of saliva swabs. The top panel compares profiles using AmpFlSTR® Identifiler™ PCR Amplification Kit (Applied Biosystems). The bottom panel shows results using SGM+.**



### Comparison of yields

**DNA extractions with forensicGEM™ produced slightly lower yields overall but all gave comparable profiles.**



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