

## **IMPLEMENTATION OF THE POWERPLEX® 18D SYSTEM IN CASEWORK**

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Nowadays, DNA technology has played an increasingly important role in criminal investigation. Our aim is to find a fast and effective way to solve the case quickly and accurately. However, the current operating process is relatively complicated and time-consuming. For ordinary samples, it takes more than 6 hours from the DNA extraction, PCR and electrophoresis to data analysis. But it takes even more time for difficult samples, such as bones, teeth and so on. This study illustrates the feasibility of direct amplification from casework blood stains using the PowerPlex® 18D System.