

## Abstract 52

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### DNA PURIFICATION FROM FORENSIC SAMPLES USING THE BIOROBOT M48

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#### **Objectives**

We have developed optimized protocols for automated extraction of genomic DNA from forensic reference and casework samples. 6–48 samples can be processed in parallel, giving efficient processing of forensic samples and optimized workflow with minimal human contact. The purpose of this study was to evaluate these new protocols on the App. Package, M48, Forensics v2.0.

#### **Materials and methods**

The BioRobot M48 system provides fully automated purification of DNA using silica-coated magnetic particles, eliminating the need for tedious centrifugation steps. The easy-to-use workstation allows purification of 6–48 samples in a single run. Between processing runs, the worktable can be decontaminated using an integrated UV lamp to reduce the chances of environmental contamination. DNA was purified from various forensic samples or from diluted DNA using fully automated protocols on the new App. Package, M48, Forensics v 2.0 according to the *MagAttract DNA Mini M48 Handbook* ([www.qiagen.com/goto/M48ForensicHB](http://www.qiagen.com/goto/M48ForensicHB)). For detailed information about forensic protocols and applications, visit our forensic resource site at [www.qiagen.com/forensics](http://www.qiagen.com/forensics).