

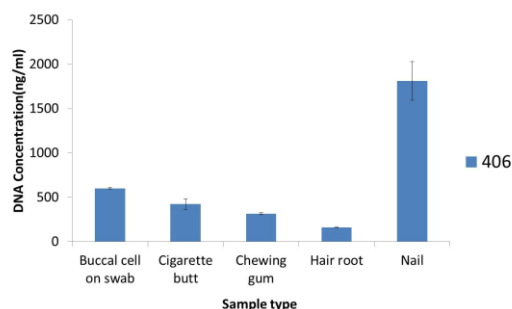
# Technical Note – Forensics

## Automated Genomic DNA Isolation from Forensic Samples

AutoGen offers different levels of automation to serve every laboratory's needs based on workflows and budget. Our XTRACT 16+ automated workflow along with the Forensic DNA Direct Kit are optimized for isolating DNA from forensic samples such as dried blood spots, swab samples, cigarette butts, hair roots, seminal stain and chorionic villus for prenatal testing. The unique design of our FS tips and program allow users to load forensic samples directly onto the XTRACT 16+ without any pretreatment.

- Quick, consistent and reproducible results.
- Convenient pre-filled and sealed cartridges.
- Minimal manual pipetting, complete automatic procedure from sample to cell lysis to elution.
- Isolate DNA from multiple sample types in the same run including dried blood spots, swab samples, cigarette butts, hair roots, seminal stain and chorionic villus.
- Purified DNA to use in all downstream applications.

DNA Extraction from Various Sample Types



### Results of direct DNA extraction from various forensic sample sources.

Samples of specified sizes: Buccal cell on swab, Cigarette butt, Chewing gum, Hair root and nail were applied to automated extraction on the XTRACT 16+.

## AutoGen XTRACT 16+

Total automated workflow for forensic DNA extraction with XTRACT 16+.

### Key Features

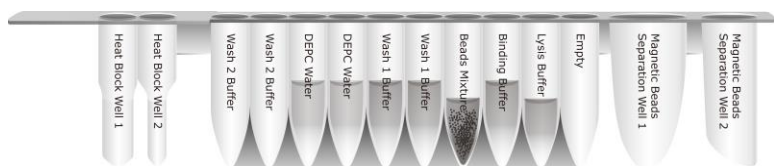
- Variety of forensic sample sources
- Low-medium throughput, 1-16 samples / run
- Bar code reading / sample tracking
- LIMS compatibility
- Archival quality DNA



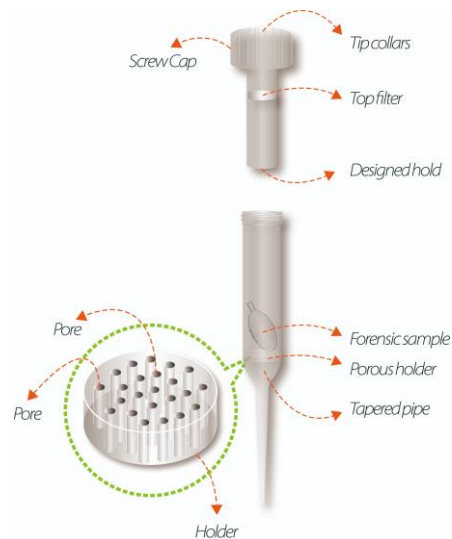
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## XTRACT 16+ Principle and Procedure

The XTRACT method uses a pre-filled cartridge. Following loading sample into our FS tips, cell lysis occurs then the DNA will bind to the cellulose coated magnetic beads. After washing off the contaminants, the purified DNA is eluted by low salt elution buffer. Using magnetic-particle technology to purify genomic DNA from forensic samples, the purified genomic DNA can be used directly for all downstream applications.



## Forensic FS Tips



## Ordering Information and Kit Performance

PRODUCT #	PRODUCT NAME	PROCESSING TIME
XK406-72	XTRACT Forensic DNA Direct Kit	125 minutes

*AutoGen's promise is to provide the most practical, economically effective solutions for your sample prep and automation extraction solution needs, and to do it with a level of service, support, and responsiveness that leads the industry.*