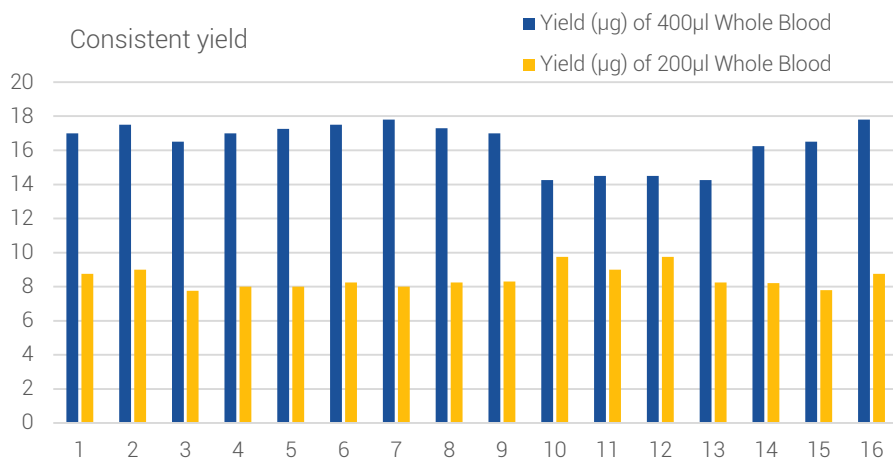


Technical Note - Blood

Automated Genomic DNA Isolation from Human Whole Blood 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 Genomic DNA Blood Kits are optimized for isolating DNA (including genomic, mitochondrial, and viral DNA), from samples such as whole blood, plasma, serum and buffy coat. With build-in programs for all kits, run your blood DNA isolation on the XTRACT 16+ workflow with a few simple clicks.

- Quick, consistent and reproducible results.
- Convenient pre-filled and sealed cartridges.
- Minimal manual pipetting, complete automatic procedure from blood to cell lysis to elution.
- Isolate DNA from multiple sample types in the same run including fresh and frozen whole blood, buffy coat and body fluids
- Purified DNA to use in all downstream applications.



AutoGen XTRACT 16+

Total automated workflow for whole blood DNA extraction with XTRACT 16+.

Key Features

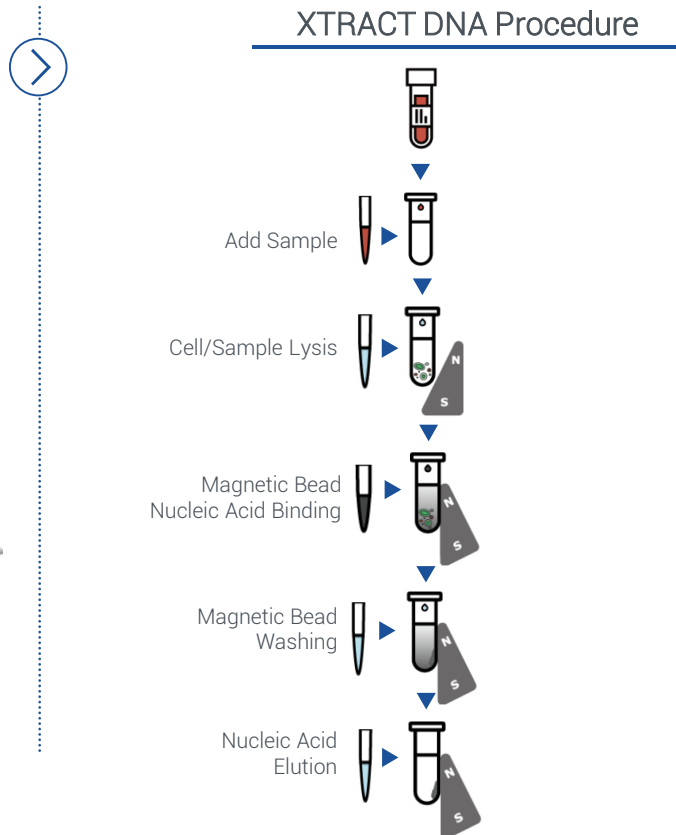
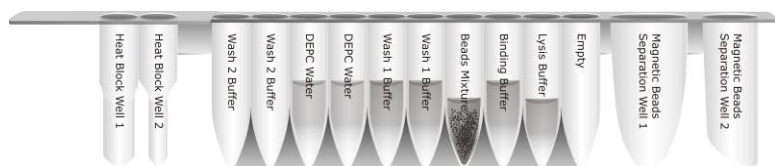
- Samples volumes from 200µl to 1.2ml
- Low-medium throughput, 1-16 samples / run
- Bar code reading / sample tracking
- LIMS compatibility
- Archival quality DNA



Technical Note - Blood

XTRACT 16+ Principle and Procedure

The XTRACT method uses a pre-filled cartridge containing proteinase K and chaotropic salt to lyse cells and degrade protein. 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 200ul-1.2ml whole blood, the purified genomic DNA can be used directly for downstream applications such as quantitative PCR, restriction enzyme digestion, Southern blotting, etc.



Ordering Information and Kit Performance

PRODUCT #	PRODUCT NAME	SAMPLE SIZE	PROCESSING TIME	TYPICAL YIELD (ng/μl)	STANDARD ELUTION VOL.
XK101-96	XTRACT Genomic DNA Whole Blood Kit (Speedy Installation)	200-400μl	39-50 minutes	150	150-200μl
XK104-96	XTRACT Genomic DNA Large Volume Whole Blood Kit	1.2ml	82 minutes	150-200	200-400μl

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.