

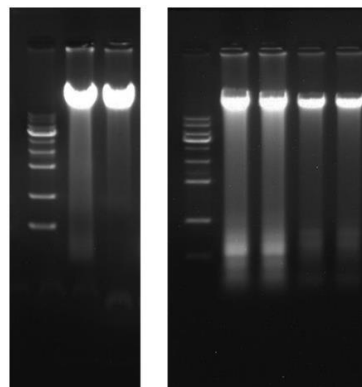
Technical Note – Tissue, Swabs and Stool

Automated Genomic DNA Isolation from Tissue, Swabs and Stool

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 Tissue Kit are optimized for isolating DNA (including genomic, mitochondrial, and viral DNA), from a variety of animal tissues, swabs or stool.

- Quick, consistent and reproducible results.
- Convenient pre-filled and sealed cartridges.
- Isolate DNA from multiple sample types in the same run including a variety of tissues, swabs or stool.
- Purified DNA to use in all downstream applications.

Mice tissue	Yield (µg)
Liver	17.5
Spleen	17.5
Brain	10
Lung	12.5
Kidney	32.5
Tail	7.5



Agarose gel electrophoresis of various animal tissue DNA isolated on XTRACT 16+:
Lane M: 1 kb DNA ladder marker; Lane 1: Rat kidney; Lane 2: Rat liver; Lane 3-4: Pork liver; Lane 5-6: Fish tissue

AutoGen XTRACT 16+

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

Key Features

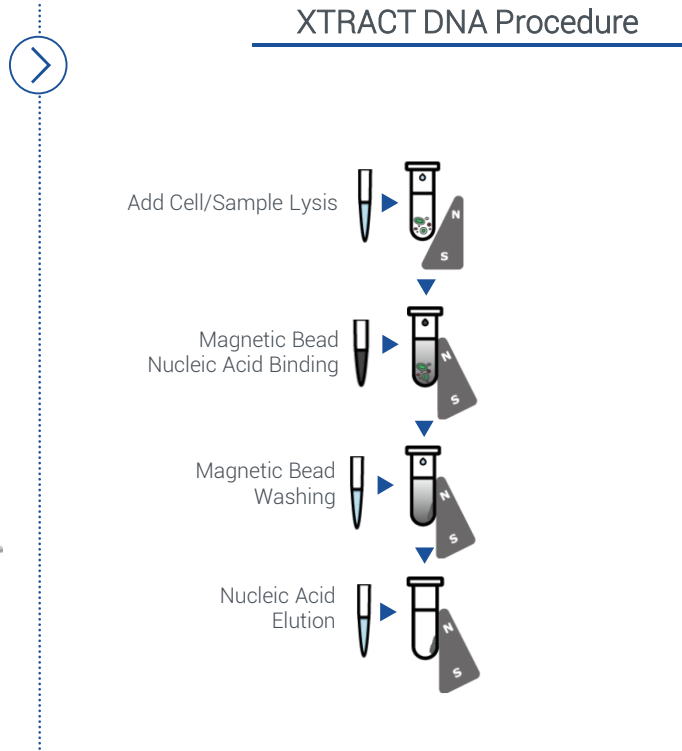
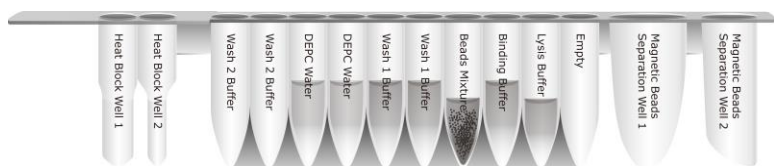
- Samples volumes up to 30mg for solid tissue or up to 180-200mg for stool samples.
- Low-medium throughput, 1-16 samples / run
- Bar code reading / sample tracking
- LIMS compatibility
- Archival quality DNA



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XTRACT 16+ Principle and Procedure

The XTRACT method uses a pre-filled cartridge. Following an offline lysis step, 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 tissue, swabs or stool, 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.
XK401-96	XTRACT Genomic DNA Tissue Kit	10-30 mg tissue 180-200 mg stool	33 minutes	150	150-200μl

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.