

# Technical Note – Liquid Biopsy

## Automated Liquid Biopsy DNA Isolation

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 Liquid Biopsy DNA Kit are optimized for isolating DNA from liquid biopsy samples, such as cfDNA, ctDNA, plasma, serum, and body fluids with high sensitivity for cancer diagnosis, detection of genetic disorder in prenatal testing and more.

- 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 genomic DNA from liquid biopsy samples, such as cfDNA, ctDNA, plasma, serum and body fluids
- Purified DNA to use in all downstream applications.

NO.	Kits	Qubit (ng/μl)	Ct value (n=2)	Bioanalyzer (pg/μl)
1	XTRACT Liquid Biopsy DNA Kit (4ml)	0.154	19.18 / 19.15	38.26
2		0.192	18.85 / 19.17	64.31
3		0.192	19.17 / 19.14	44.14
4	Competitor Q kit	0.155	18.28 / 18.29	63.24

## AutoGen XTRACT 16+

Total automated workflow for liquid biopsy DNA extraction with XTRACT 16+.

### Key Features

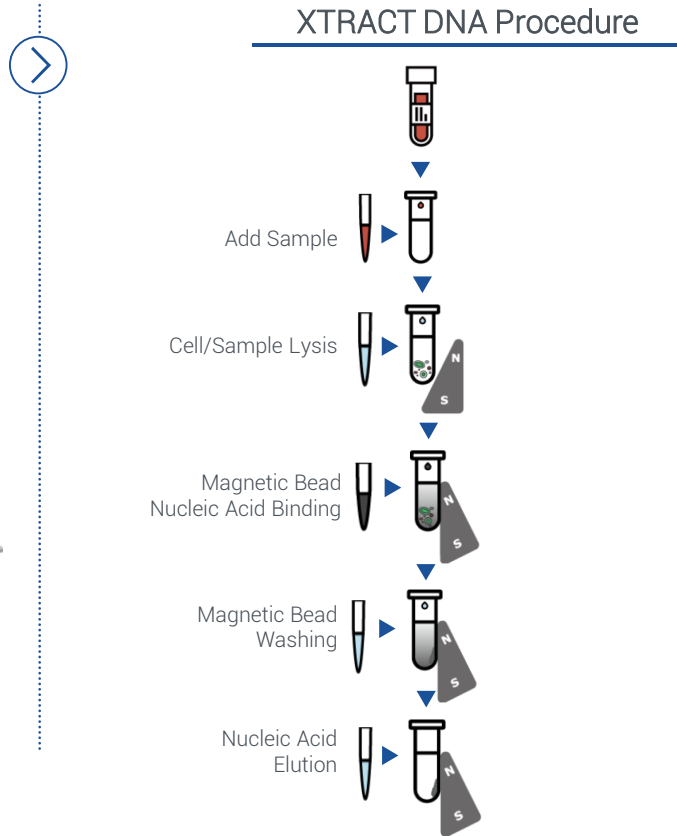
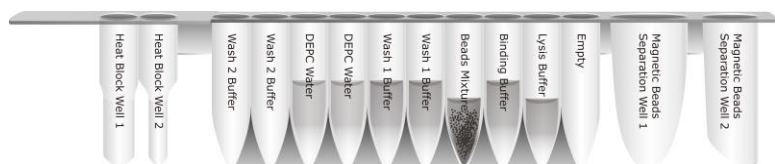
- Samples volumes up to 4ml
- Low-medium throughput, 1-16 samples / run
- Bar code reading / sample tracking
- LIMS compatibility
- Archival quality DNA



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## XTRACT 16+ Principle and Procedure

The XTRACT method uses a pre-filled cartridge 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 DNA from up to 4ml liquid biopsy samples, such as cfDNA, ctDNA, plasma, serum or body fluids, 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
XK115-96	XTRACT Liquid Biopsy Kit	4ml	146 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.*