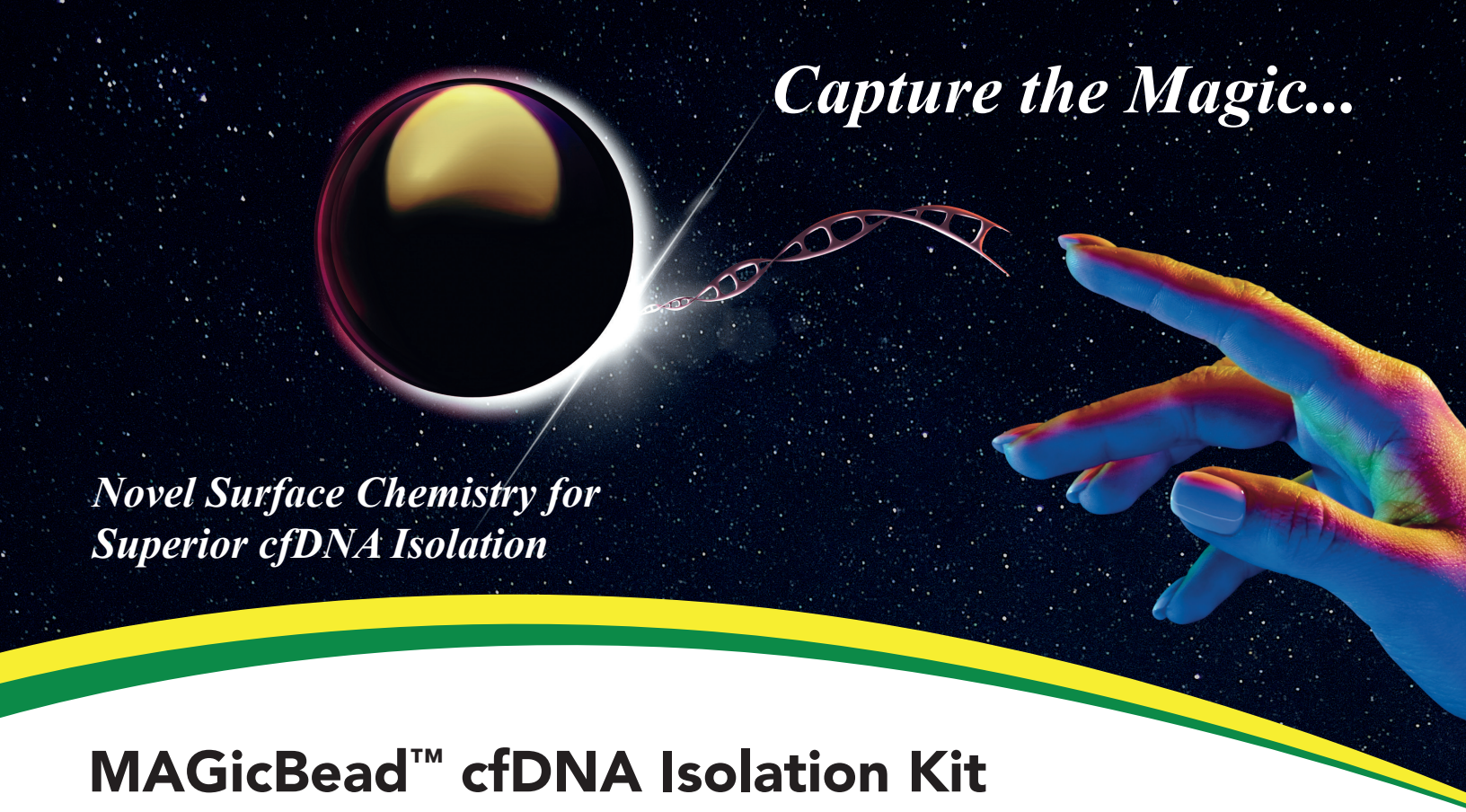
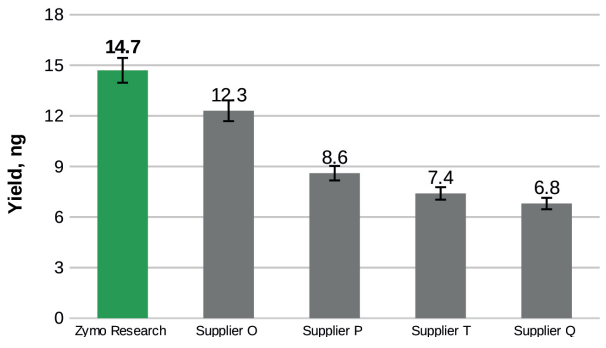


MAGicBead™ cfDNA Isolation Kit

Novel magbead surface technology moves away from traditional silica-based DNA binding chemistry. It uses innovative DNA binding and release mechanism that is quick and efficient, free of use of alcohol.

- **Highest Yield:** Robust cfDNA isolation from up to 10mL plasma w/ unique MAGicBead™ technology
- **NGS-Ready:** High-quality cfDNA ideal for Next-Gen Sequencing and other applications
- **Compatible:** Any open automation platforms and a variety of biofluids, including plasma

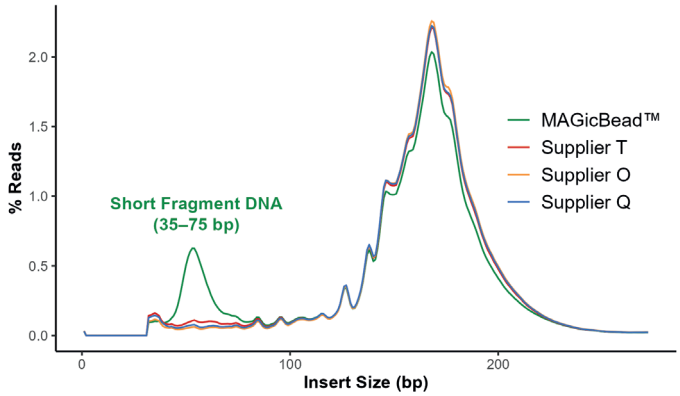
Achieve the Highest cfDNA Yield



Total cfDNA yields from five different magbead-based kits. Triplicate preps of 1mL plasma each from a single donor was used. Yields were assessed using Qubit™ 1x dsDNA HS Assay Kit (Thermo-Fisher Scientific).

Superior Recovery of Short Fragment DNA

Human Genome Mapped Reads



Percent reads mapped to human genome by insert size. cfDNA was extracted in duplicates from a single donor plasma using four magbead- based extraction kits. cfDNA inputs for Zymo-Seq SPLAT Library Prep Kit (D5464) were normalized to 10ng. Whole genome sequencing performed on NovaSeq6000 (Illumina) at 30X coverage.

ZYMO RESEARCH

The Beauty of Science is to Make Things Simple®

MAGicBead™ cfDNA Isolation Kit

ZYMO RESEARCH
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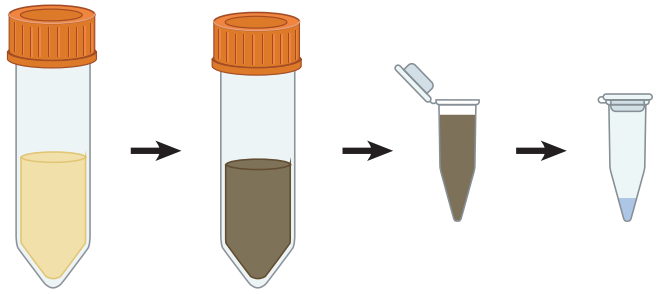
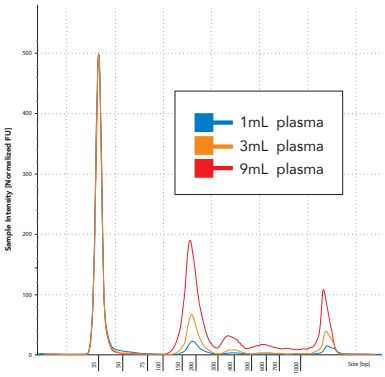
Simple Workflow



Simple, scalable , and quick protocol that is easy to adopt on any automation platforms on or lab bench.

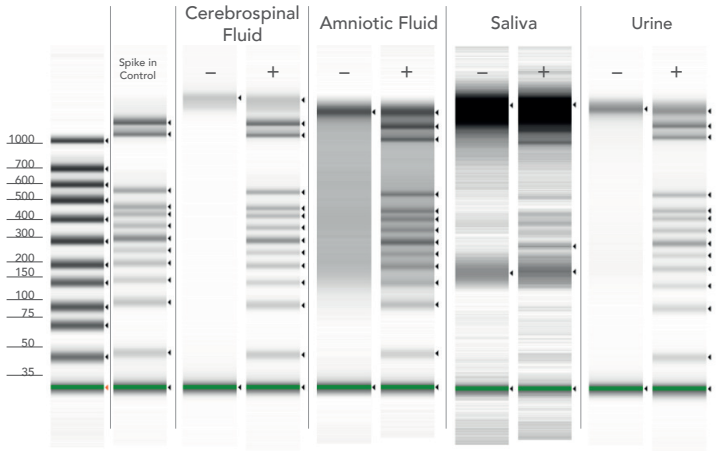
Scalable Recovery



Efficiently scale your sample input from 0.2 to 10 mL

Compatibility

Sample types	Blood tube types (plasma)	Automation platforms	Incompatible
• Plasma • Serum • Saliva • Urine • Cerebrospinal fluid • Amniotic fluid • Spent cell culture media	• K_2EDTA • Streck-DNA • K_2EDTA • Na_2EDTA • Na-Citrate • Na-F / K-Oxalate	• KingFisher Flex/Apex (Thermo-Fisher) • Fluent® X (Tecan) • Microlab® STAR™ (Hamilton) • OT-2 (Opentrons)	• Heparin • Synovial fluid



Compatible with wide variety of sample types
500µL of cerebrospinal fluid, amniotic fluid, spun-down saliva (12,000 x g for 5 min at RT) or 3 mL of urine.

Visualized using Cell-free DNA ScreenTape Analysis (Agilent Technologies).

Experience the Magic for Free!

Product	Cat. No.	Size
MAGicBead™ cfDNA Isolation Kit	D4086	2 mL x 50 Prep.

Email automation@zymoresearch.com for assistance, including scripts and other specific inquiries tailored to your project. Require a Custom Solution? Inquire Here or email busdev@zymoresearch.com

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Toll Free: (888) 882-9682

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