

# Mag-Bind® cfDNA LSP Kit

Prefilled, fully automated cfDNA extraction solution from 4 mL plasma or serum



## Prefilled Buffers

Load samples, reservoirs, and tubes, press start, and you're ready to go.



## Traceability

Scannable reagent reservoirs and tubes confirm proper component location



## High Throughput

Process 96 samples in ~3 hours and 20 minutes.

**Mag-Bind® cfDNA LSP Kit** is a prefilled kit designed for rapid and reliable isolation of circulating DNA from up to 4 mL plasma/serum samples on open-ended liquid handlers, such as the Hamilton Microlab® STAR™. This kit is automation-ready with a prescribed extraction workflow, as well as prefilled reagent reservoirs and tubes that can be scanned for location confirmation on your liquid handler's deck. The prefilled reservoirs are ANSI/SLAS compliant, and can fit into any accommodating deck space. This procedure provides a fully automated extraction workflow for processing up to 96 samples once transferred to sample plates.

## Load



- Alcohols pre-added to Wash Buffers
- Buffers pre-loaded into sealed, barcoded reservoirs and tubes
- Remove seals and load components onto the deck
- Reservoirs and tubes can be resealed for reuse within 7 days

## Scan



- Components can be placed in any position on the deck
- Component location identified via barcode, reducing user errors
- Buffer volumes and plasticware are automatically verified

## Purify



- Same proven chemistry as our Mag-Bind® cfDNA Kit
- Magnetic beads and high-value reagents stored in tubes to reduce dead volumes
- Process 1 to 4 plates
- 4 mL of serum or plasma can be eluted in 50-200 µL



innovations in nucleic acid isolation

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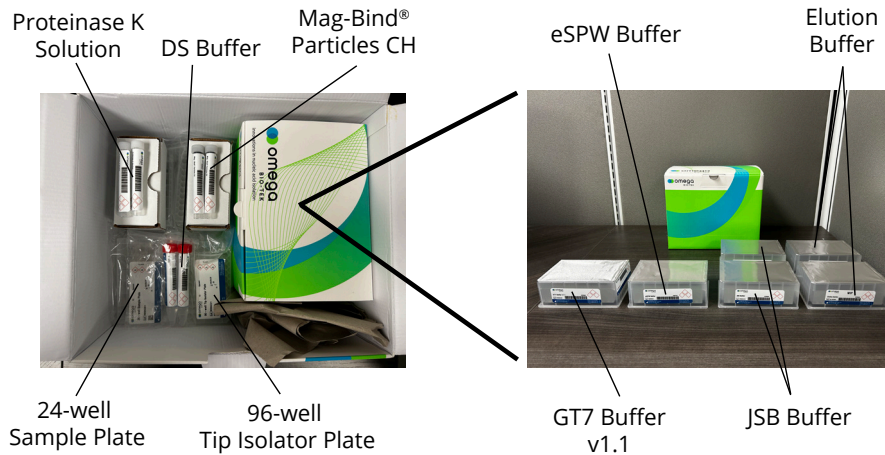


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# Mag-Bind® cfDNA LSP Kit

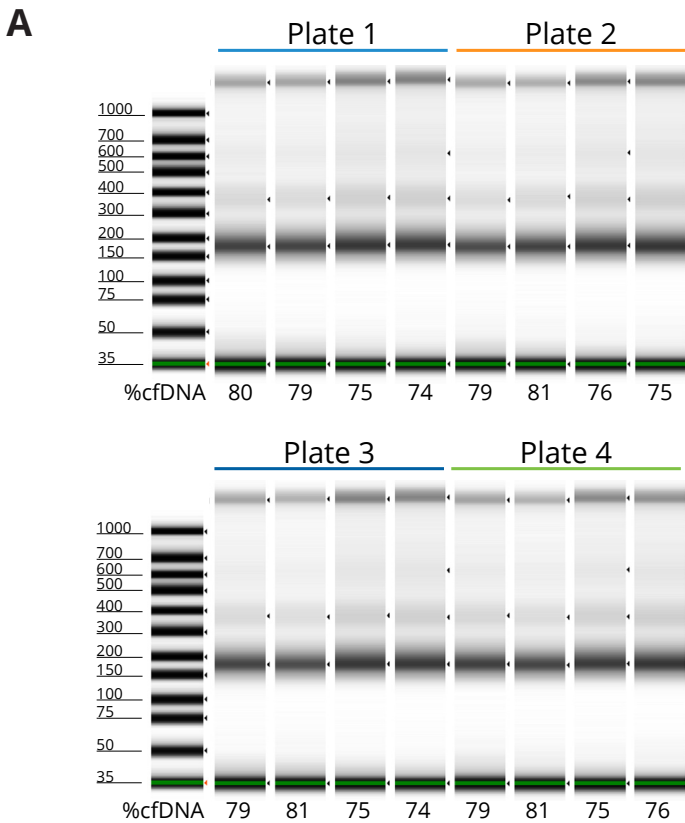
Prefilled, fully automated cfDNA extraction solution from 4 mL plasma or serum

## FOIL-SEALED REAGENTS INCLUDED IN MAG-BIND® cfDNA LSP KIT



**Figure 1.** The Mag-Bind® cfDNA LSP Kit (PS3298) contains foil-sealed, prefilled reagent reservoirs and required plasticware for cfDNA purification. DS Buffer, Proteinase K, and Mag-Bind® Particles CH come in sealed tubes, rather than reservoirs, to reduce dead volumes.

## REPRODUCIBLE RESULTS ACROSS MULTIPLE PLATES



**B**

Plate	Sample	Concentration 50-700 bp (pg/μL)	Avg. Total Yield 50-700 bp (ng)	Std. Dev.
1	1	280	31.9	4.47
	2	281		
	3	358		
	4	358		
2	1	261	32.3	5.32
	2	297		
	3	360		
	4	374		
3	1	280	31.6	5.08
	2	264		
	3	354		
	4	364		
4	1	289	32.1	4.15
	2	285		
	3	337		
	4	372		

**Figure 2.** cfDNA was extracted from 4 mL pooled plasma and eluted in 100 μL. 4 x 24 samples processed in ~3 hrs 20 min on a Hamilton Microlab® STAR. **A)** TapeStation analysis of cfDNA extracted with the Mag-Bind® cfDNA LSP Kit shows well-defined cfDNA bands ~180 bp. **B)** Concentration in 50-700 bp range and average yield are shown.

Product Description	Size	Cat No.
Mag-Bind® cfDNA LSP Kit	4 x 24	PS3298-1-96PF