

Mag-Bind® Blood & Saliva LSP Kit

Pre-programmed, pre-filled, fully automated DNA extraction from a variety of sample types



Pre-filled 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

Reduce set-up time by 50% and process 384 samples in under 2.5 hours

Mag-Bind® Blood & Saliva LSP Kit is a pre-filled kit designed for the efficient and reliable purification of genomic DNA from blood, cells, buffy coat, or saliva samples, with the capability to process input volumes of up to 250 μL (blood), 500 μL (saliva), and 1×10^6 cells per sample in one to four 96-well plates with 50-200 μL elution volumes. This Kit is automation-ready, featuring pre-filled, barcoded reagent reservoirs and tubes for seamless integration with most open-ended liquid handling platforms, ensuring traceability, consistency, and high-quality results across large sample sets.

Load



- Reduce set-up time by 50% with pre-filled reagents in sealed, barcoded reservoirs and tubes
- Alcohols pre-added to wash buffers
- Remove seals and load components onto the deck in any position
- Reservoirs and tubes can be resealed for reuse within 7 days

Scan



- Method-verified deck positions identify placement of all components without manual intervention
- Components can be placed in any position on the deck
- Custom method verifies buffer volumes and plasticware

Purify



- Dead volumes minimized across tubes and reservoirs to reduce reagent waste
- Process 1 to 4 plates of blood, cells, buffy coat, or saliva samples
- 4 x 96 samples eluted in as little as 50 μL in ~2.5 hours



innovations in nucleic acid isolation

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REPRODUCIBLE RESULTS ACROSS MULTIPLE PLATES

Plate	Yield (µg)	A260/A280	A260/A230	Avg. Yield (µg)	Std. Dev.	CV (%)
1	7.88	1.77	1.73	8.67	0.77	8.90%
	8.75	1.77	2.11			
	7.29	1.80	2.07			
	9.19	1.78	2.04			
	8.90	1.78	2.09			
	9.40	1.78	2.07			
	9.52	1.77	2.09			
	8.43	1.78	2.06			
	2	9.11	1.78			
9.22		1.78	2.05			
9.71		1.77	2.07			
8.47		1.78	2.06			
8.58		1.80	2.08			
8.83		1.78	2.02			
8.80		1.79	2.10			
8.33		1.80	2.11			
3		7.78	1.80	2.06	8.46	1.06
	6.43	1.80	2.06			
	9.11	1.77	2.08			
	8.83	1.78	2.04			
	5.04	1.80	1.95			
	8.39	1.80	2.06			
	9.45	1.79	2.05			
	9.25	1.77	1.83			
4	8.03	1.78	2.07	8.52	0.86	10.10%
	8.99	1.79	2.08			
	7.65	1.78	2.08			
	7.17	1.80	2.08			
	9.04	1.77	2.01			
	9.84	1.78	1.97			
	8.87	1.77	2.04			
	8.60	1.78	2.06			

Table 1. DNA was extracted from 500 µL stabilized saliva (n=8 per plate) using the Hamilton Microlab® STAR™ and eluted in 100 µL. 4 x 96 sample plates were processed in ~2.5 hrs. High yields of high-quality DNA were consistently extracted across four plates.

HIGH YIELDS OF HIGH-QUALITY DNA FROM BLOOD

Plate	Yield (µg)	A260/A280	A260/A230	Avg. Yield (µg)	Std. Dev.	CV (%)				
1	11.52	1.81	1.88	11.19	0.39	3.50%				
	10.72	1.83	1.90							
	10.88	1.83	1.87							
	10.94	1.83	1.93							
	11.00	1.82	1.91							
	11.36	1.83	1.83							
	11.90	1.82	1.77							
	11.18	1.83	1.91							
	2	9.30	1.84				1.69	10.95	1.04	9.50%
		11.40	1.80				1.84			
11.94		1.80	1.75							
11.14		1.82	1.91							
11.86		1.83	1.81							
11.46		1.82	1.78							
9.38		1.82	1.74							
11.14		1.82	1.77							

Table 2. DNA was extracted from 250 µL frozen blood samples (n=8 per plate) using the Hamilton Microlab® STAR™ and eluted in 100 µL. 2 x 96 sample plates were processed in ~2 hrs. High yields of high-quality DNA were consistently extracted.

INHIBITOR-FREE DNA EXTRACTED FROM BLOOD

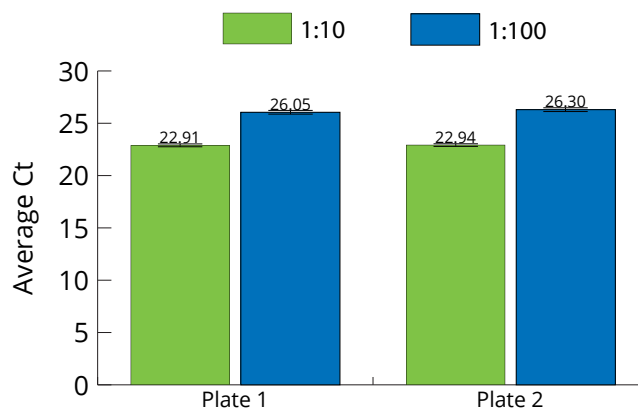


Figure 1. DNA was extracted from 250 µL frozen blood samples (n=8 per plate) using the Hamilton Microlab® STAR™ and eluted in 100 µL. The Ct values obtained from qPCR amplification differed by ~3.3 cycles per 10-fold dilution, indicating inhibitor-free DNA.

Product Description	Size	Cat No.
Mag-Bind® Blood & Saliva LSP Kit	4 x 96	PS6399-1-384PF