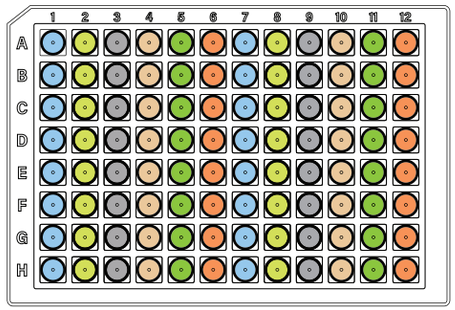
GALENVS

magnetiQ

Circulating free DNA (cfDNA) Extraction Kit

Quick Start Guide



- Enrichment Buffer (100µl) — Columns 1 & 7
- Functionalized Beads (200µl) — Columns 3 & 9
- Bead Release Agent (100µl) — Columns 2 & 8
- Wash #1 Buffer (600µl) — Columns 4 & 10
- Wash #2 Buffer (600µl) — Columns 5 & 11
- Elution Buffer (70µl) — Columns 6 & 12

▲ 900µl plasma, 30µl of enrichment beads. & 60µl of Proteinase K added to Enrichment Buffer

▼ 70µl extracted and purified cfDNA elution

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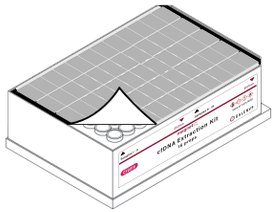
cfDNAKit miQron protocol parameters

Step Name	Column	Volume (µl)	Time (min)	Mixing Speed (1–10) (90% in tube)	Dry Time (sec)	Magnet Capture Time (sec)	Temp (°C)
-Load-							
Enrichment	1 & 7	990	10	3	0	5 x 30s	OFF
Bead Release	2 & 8	100	5	7	0	5 x 60s	OFF
Recycle	1 & 7	990	1.0	7	0	-	OFF
Pause*							
Beads	3 & 9	200	0.5	5	0	5 x 60s	OFF
Binding	2 & 8	600	5	4	0	5 x 30s	OFF
Wash #1	4 & 10	600	1	6	0	3 x 60s	OFF
Wash #2	5 & 11	600	1	6	2	3 x 45s	OFF
Elution	6 & 12	70	3	6	0	3 x45s	56
-Unload-	4 & 10						

*After pause, remove plate from miQron and add 500µl of Binding Buffer to columns 2 & 8.

1. Remove the protective foil.

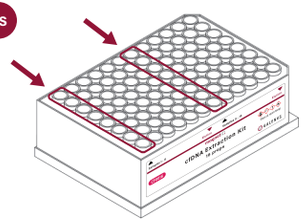


2. To columns 1 & 7, add 900µl of plasma, 60µl Proteinase K, and 30µl Enrichment Beads.

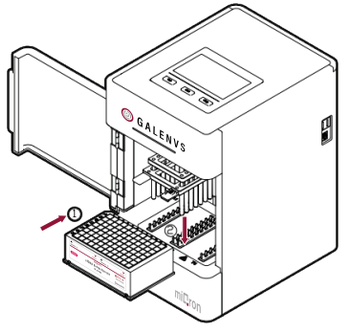
Plasma

Proteinase K

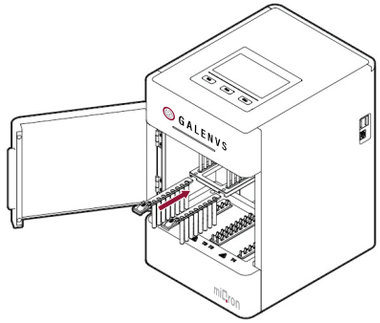
Enrichment Beads



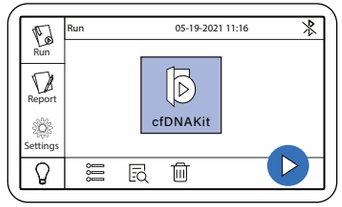
3. Place plate into the miQron, taking care that the label is facing outward.



4. Insert two combs.



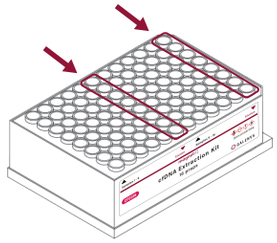
5. Select the cfDNAKit protocol and press ▶



At the pause, remove plate from miQron and add 500µl Binding Buffer to columns 2 & 8. Reinsert plate and resume program.

When program is complete, remove plate from miQron and discard combs.

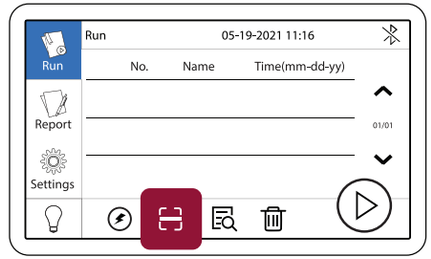
Columns 6 and 12 contain the purified DNA elution.



miQron

Protocol Update

To import the updated protocol into the miQron, press the **Scan Protocol** icon from the **Run** menu (protocol list view window). Use the scanner on the QR code below.



cfDNAKit PROTOCOL V1.0