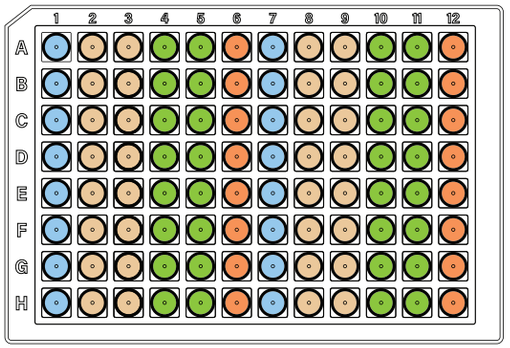
GALENVS

magnetic

Soil DNA Extraction Kit

Quick Start Guide



- Binding Buffer (600µl) — Columns 1 & 7
- Wash #1 Buffer (600µl) — Columns 2 & 8, 3 &9
- Wash #2 Buffer (600µl) — Columns 4 & 10, 5 & 11
- Elution Buffer (100µl) — Columns 6 & 12

400µl supernatant + 30µl Binding Magnetic Nanoparticles added to Binding Buffer

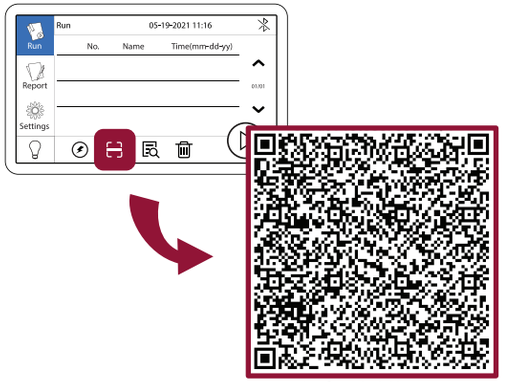
100µl extracted and purified gDNA elution

400µl supernatant + 30µl Binding Magnetic Nanoparticles added to Binding Buffer

100µl extracted and purified gDNA 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.

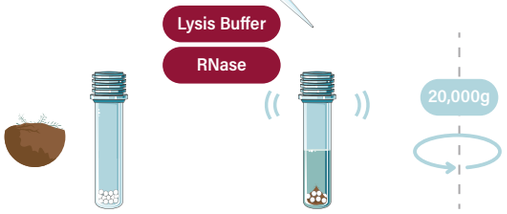


SDKit PROTOCOL V1.1

1. Add up to 250mg of soil sample to lysis bead tube provided. Add 900µl of Lysis Buffer and 5µl of RNase, mix for 10 mins using TissueLyser at max speed, or vortex for 20 mins, then centrifuge at 20,000g for 1 min.

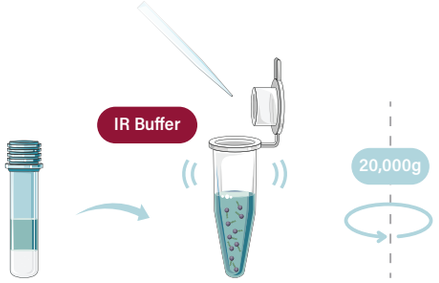
   ! For manure sample: in addition to the above, heat mixture at 65˚C for 10 mins before proceeding.

   ! For long term storage, store RNase at -20°C

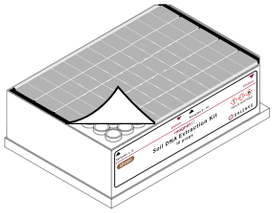


2. Avoiding pellet, transfer up to 400–500µl of supernatant to clean centrifuge tube.

   Add 200µl of IR buffer, vortex for 10–20s, then centrifuge for 1 min.

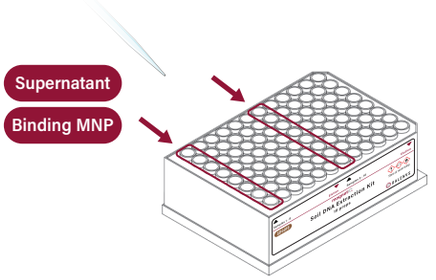


3. Remove the protective foil.

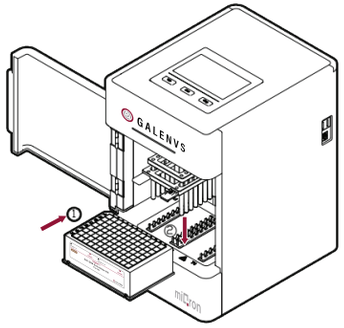


4. Avoiding pellets, transfer up to 400µl of supernatant to Binding Buffer (Columns 1 & 7). Then add 30µl of Binding Magnetic Nanoparticles.

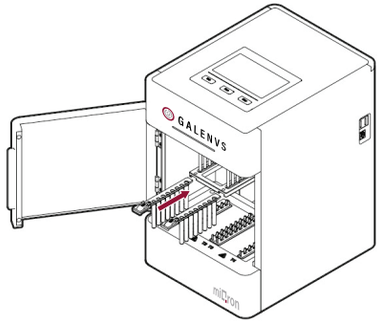
   You can add up to 16 samples.



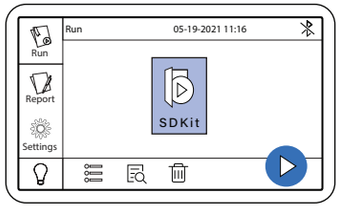
5. Place plate into the miQron, taking care that the label is facing outward.



6. Insert two combs.



7. Select the SDKit protocol and press ▶



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

Columns 6 and 12 contain the purified DNA elution.