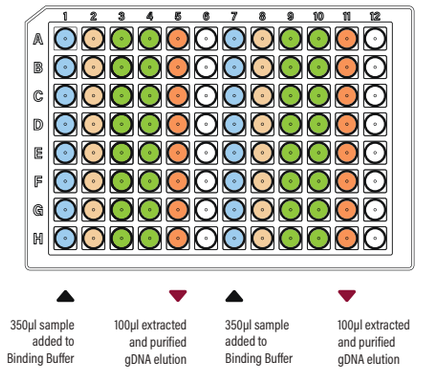
GALENVS

magnetiQ

Soil DNA Extraction Kit

Quick Start Guide



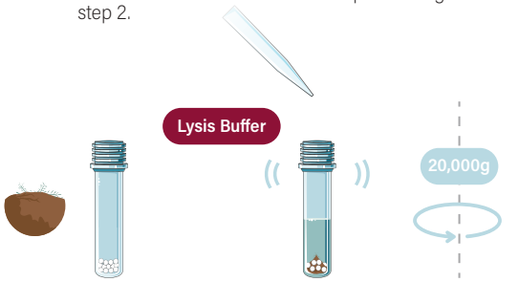
- Binding Buffer (650µl) — Columns 1 & 7
- Wash #1 Buffer (600µl) — Columns 2 & 8
- Wash #2 Buffer (600µl) — Columns 3 & 9, 4 & 10
- Elution Buffer (100µl) — Columns 5 & 11

SDKit miQron protocol parameters

Step Name	Column	Volume (µl)	Time (sec)	Mixing Speed (1–10)	Dry Time (sec)	Magnet Capture Time (sec)
Binding	1 & 7	650	300	7	0	150
Wash #1	2 & 8	600	60	7	0	90
Wash #2	3 & 9	600	60	7	0	90
Wash #2	4 & 10	600	60	7	300	90
Elution	5 & 11	100	60	10	0	150
Discard Comb	2 & 8	600	0	5	0	0

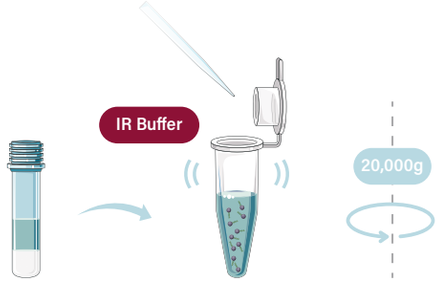
1. Add up to 250mg of soil sample to lysis bead tube provided. Add 900µl of Lysis Buffer, mix for 10 mins using TissueLyser at max speed, or vortex for 20 mins, then centrifuge at 20,000g for 1 min.

   ! For manure sample: in addition to the above, heat mixture at 65˚C for 10 mins before proceeding to step 2.

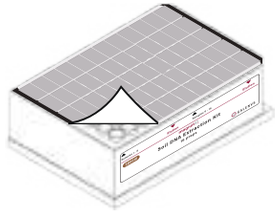


2. Avoiding pellet, transfer up to 400–500µl of supernatant to clean centrifuge tube.

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

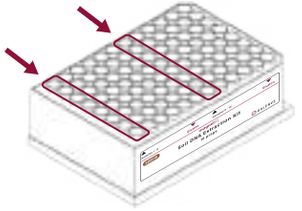


3. Remove the protective foil.

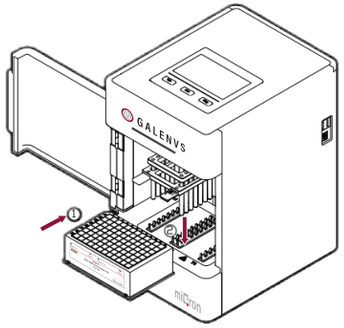


4. Avoiding pellets, transfer up to 300µl of supernatant to Binding Buffer (Columns 1 & 7).

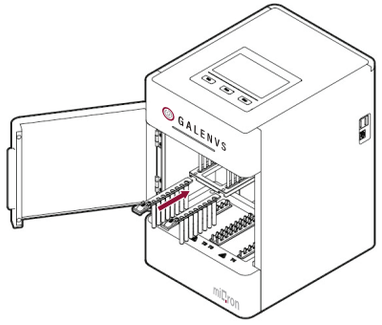
   You can add up to 16 samples.



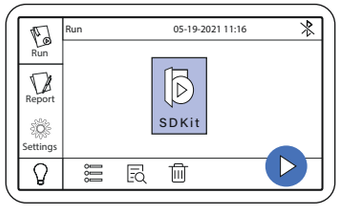
5. Place plate into the miQron, taking care that the label is facing outward.



6. Insert two combs.



7. Select the SDKit protocol and press ▶



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

Columns 5 and 11 contain the purified DNA elution.