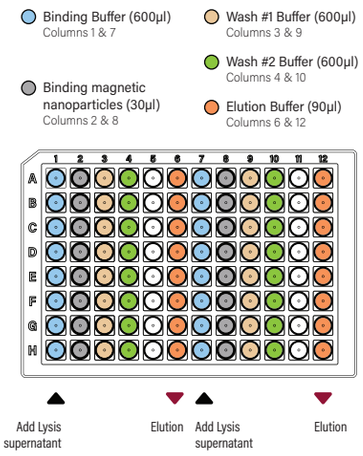
GALENVS

magnetiQ

Wastewater DNA/RNA Extraction Kit

Quick Start Guide

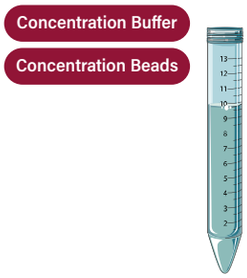


WWKit miQron protocol parameters

Step Name	Column	Volume (µl)	Time (sec)	Mixing Speed (1–10)	Dry Time (sec)	Magnet Capture Time (sec)	Temp
-Load-							
Bead Pickup	2 & 8	30	60	Medium	0	1 x 30 sec	OFF
Binding	1 & 7	1000	300	Medium	0	5 x 30 sec	OFF
Wash #1	3 & 9	600	60	Medium	0	2 x 30 sec	OFF
Wash #2	4 & 10	600	60	Medium	120	2 x 30 sec	OFF
Elution	6 & 12	100	300	Low	0	2 x 30 sec	65°C
-Unload-	2 & 8						

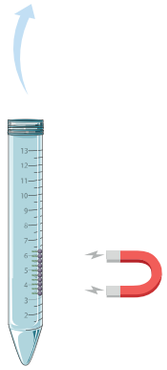
1 Transfer 10ml of wastewater sample to 15ml conical tube. Add 100µl of Concentration Buffer to sample. Invert 5 times.

Add 75µl of Concentration Beads. Invert 5 times and incubate for 10 mins. Invert 3 more times at the 5 min mark.



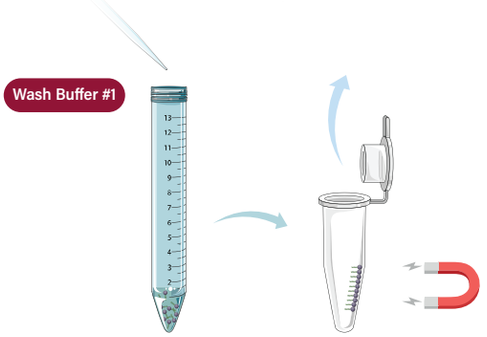
2 Place sample on 15ml magnetic rack to capture beads, then discard supernatant.

Remove tube from magnetic rack.



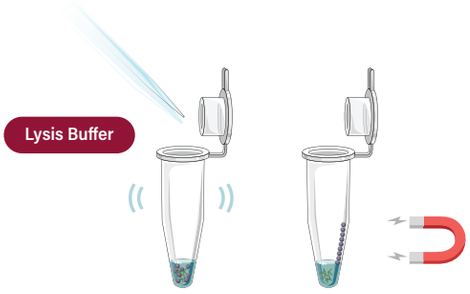
3 Resuspend beads in 1ml RNase-free water, then transfer the mixture to a clean 2ml centrifuge tube.

Place tube on 2ml magnetic rack to capture beads, then discard supernatant.



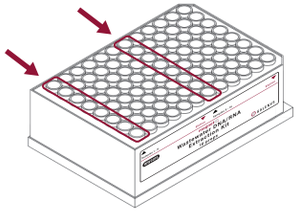
4 Remove tube from magnetic rack and resuspend beads in 400µl of Lysis Buffer.

Vortex at max speed for 5 mins, then separate beads using a 2ml magnetic rack.

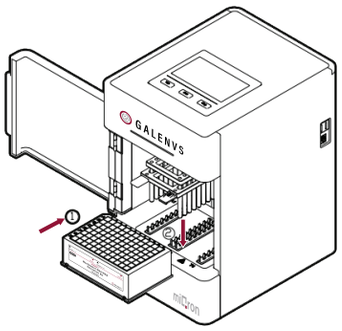


5 Avoiding pellet, transfer up to 400µl of supernatant to the Binding Buffer wells (Columns 1 & 7).

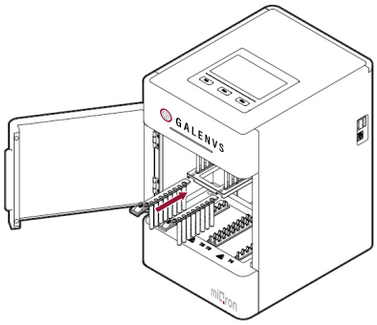
You can add up to 16 samples.



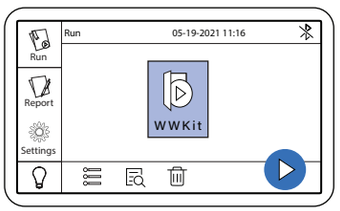
6 Place plate into the miQron, taking care that the label is facing outward.



7 Insert two combs.



8 Select the WWKit protocol and press ▶



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

Columns 6 & 12 contains the purified DNA/RNA elution.