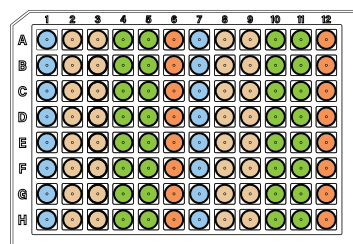


## Plant RNA Extraction Kit

## Quick Start Guide

## Part A RNA Extraction

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



▲ 400µl sample added to Binding Buffer

▼ 100µl extracted and purified RNA elution

▲ 400µl sample added to Binding Buffer

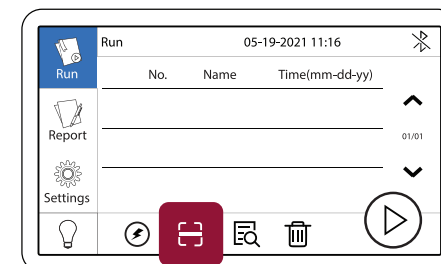
▼ 100µl extracted and purified RNA elution

## PRKit-A miQron protocol parameters

Step Name	Column	Volume (µl)	Time (sec)	Mixing Speed (1-10)	Dry Time (sec)	Magnet Capture Time (sec)
Binding	1 & 7	600	300	7	0	150
Wash #1	2 & 8	600	60	7	0	90
Wash #1	3 & 9	600	60	7	0	90
Wash #2	4 & 10	600	60	7	0	90
Wash #2	5 & 11	600	60	7	300	90
Elution	6 & 12	50	180	10	0	150
Discard Comb	2 & 8	600	0	5	0	0

## Protocol Update

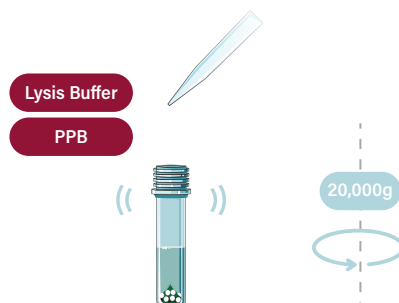
To import the updated protocol into the miQron, press the **Scan Protocol** icon from the Run menu (protocol list view window). Use the scanner on the QR codes below.



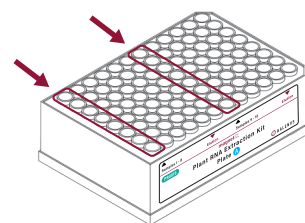
- 1 Add up to 50mg of fresh plant leaves sample to the lysis bead tube provided.



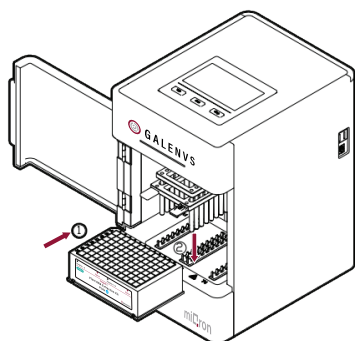
- 2 Add 600µl Lysis Buffer, and 60µl PPB. Mix for 10 mins using TissueLyser at max speed or vortex for 10 mins; then centrifuge at 20,000g for 2 mins.



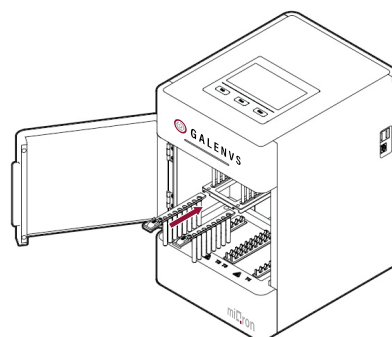
- 3 To the RNA Extraction Kit Plate A transfer up to 400µl of supernatant to Binding Buffer #1 (columns 1 & 7). You can add up to 16 samples.



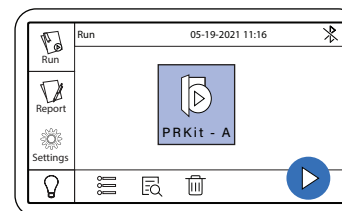
- 4 Place plate into the miQron, taking care that the label is facing outward.



- 5 Insert two combs.



- 6 Select PRKit - Part A and press ▶



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



PRKIT-A PROTOCOL V1.0

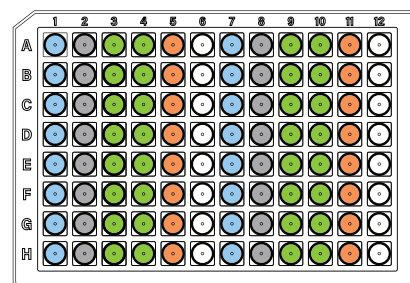


PRKIT-B PROTOCOL V1.0

## Plant RNA Extraction Kit

## Quick Start Guide

## Part B DNase Treatment



100µl sample added to Binding Buffer      50µl extracted and purified RNA elution      100µl sample added to Binding Buffer      50µl extracted and purified RNA elution

- Binding Buffer (400µl)  
Columns 1 & 7
- Functionalized Beads (200µl)  
Columns 2 & 8
- Wash #3 Buffer (600µl)  
Columns 3 & 9, 4 & 10
- Elution Buffer (50µl)  
Columns 5 & 11

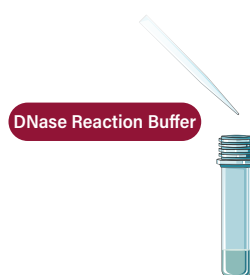
## PRKit-B miQron protocol parameters

Step Name	Column	Volume (µl)	Time (sec)	Mixing Speed (1-10)	Dry Time (sec)	Magnet Capture Time (sec)
Bead Transfer	2 & 8	200	n/a	n/a	0	100
Binding	1 & 7	400	120	7	0	120
Wash #3	3 & 9	600	120	6	0	100
Wash #3	4 & 10	600	120	6	0	100
Elution	5 & 11	50	120	7	0	200
Discard Comb	3 & 9	600	0	5	0	0

7 Add 100µl of DNase Reaction Buffer to DNase pellet.

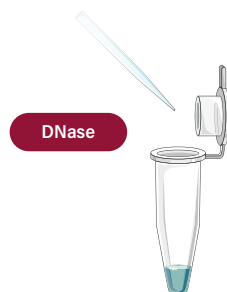
Mix by gently inverting the tube.

Reconstituted pellet must be stored at -20 °C.

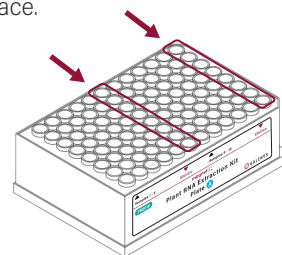


8 For each RNA sample, prepare DNase Buffer by adding 10µl of DNase prepared in the previous step to 40µl of DNase Reaction Buffer in a microfuge tube.

Mix DNase with buffer by gently inverting the tube a few times.

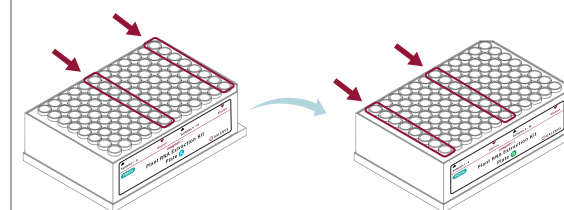


9 To the RNA Extraction Kit Plate A add 50µl of DNase Buffer to Elution Buffer (columns 6 & 12). Dispense directly into the elution buffer not on the walls. If there are any droplets of elution buffer left on the walls, slide them to the well bottom by gently shaking or tapping the plate on a solid surface.

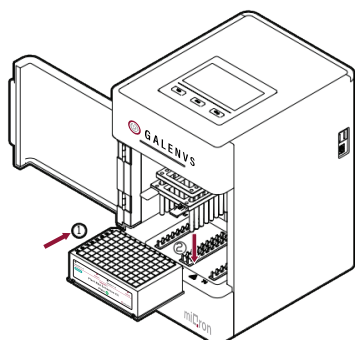


10 Gently shake Plate A for 10 seconds by hand and incubate at room temp for 20 mins.

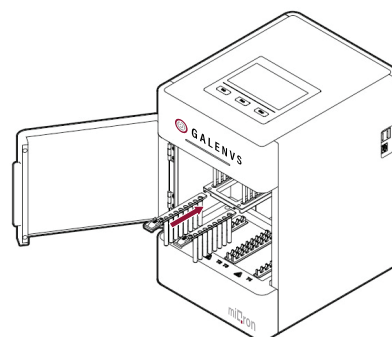
From the RNA Extraction Kit Plate A transfer 100µL of the Elution Buffer (columns 6 & 12) to each well (columns 1 & 7) of the RNA Extraction Kit Plate B



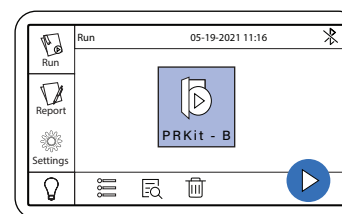
11 Place Plate B into the miQron, taking care that the label is facing outward.



12 Insert two combs.



13 Select PRKit - Part B and press ▶



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

Columns 5 and 11 contain the purified RNA elution.

