

Packing list for 1pc/ 2 pcs cartridge kit

	High Sensitivity RNA Cartridge Kit	
	1 pc (C105111)	2 pcs (C105211)
High Sensitivity RNA Cartridge (NR1)	1 pc	2 pcs
Alignment Marker (5x Lower Marker, C109120)	100 μ l*1	100 μ l*2
10x Separation Buffer	15 ml	15 ml
Dilution Buffer	15 ml	15 ml
Mineral Oil	8 ml	8 ml
Accessory Package		
Buffer Tray	2 pcs	2 pcs
PCR Vial	8 Strip *1	
Dropper	2 pcs	2 pcs

Applications of NR1 cartridge

Methods	Best Range	Applications
NR4-10-04-480	Total RNA QC	RNA Analysis CRISPR QC & Analysis
NR4-10-06-300	20~1000 nt ssRNA & dsRNA fragment analysis	

§ Troubleshooting Steps §

(1) HV check failed

- 1-a. Repeat HV check 2-3 times.
- 1-b. Soak cartridge tip in hot water and purge cartridge at least 15-30 mins with purge station simultaneously.

(2) Calibration failed

Check HV purge, sample injection and separation current respectively.



- Unstable current of sample injection:

Make sure 5x lower marker (C109120) was loaded $\geq 20 \mu$ l in 0.2 ml PCR tube. and placed at MC1/M position.



- Unstable current of HV purge or separation:

2-a. Repeat unpacking procedure (2) and make sure the pin has been pressed all the way in (puncturing the internal gel barrier).

2-b. Follow "Troubleshooting 1-b".



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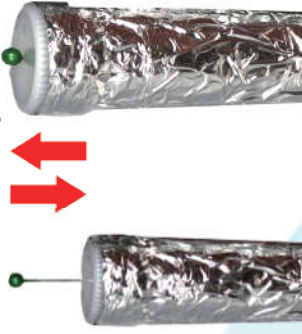


Unpacking procedure

1. Open the cartridge shell and take out cartridge vertically.



2. Insert the pin into the small hole of cartridge cap and press it all the way in.



Recommendation: Repeat step 2 before use each time.

3. Remove the pin and clean cartridge cap and tip with tissue. Make sure the cartridge is always kept in vertical position.



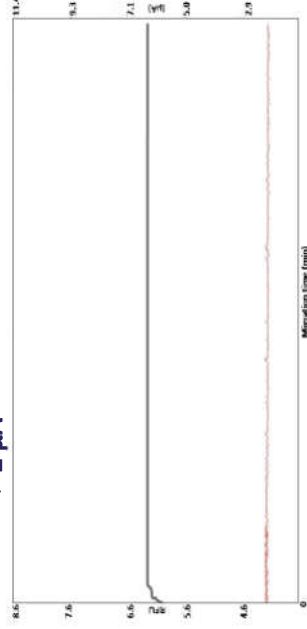
**Remove aluminum foil before use*

Notification: NR1 cartridge is light sensitive. Always store NR1 cartridge in dark.

4. Cartridge has to pass **HV check** and **Calibration** before use.



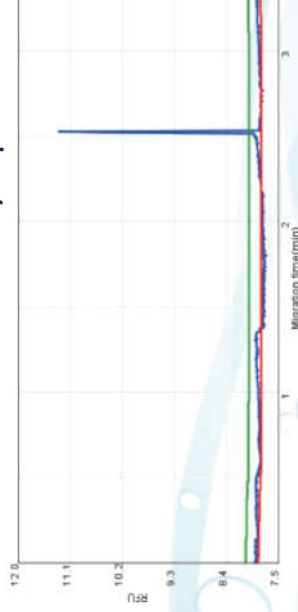
- HV check: The current (gray line) should be flat and $> 2 \mu A$.



**If the HV check failed, please refer to troubleshooting (1).*

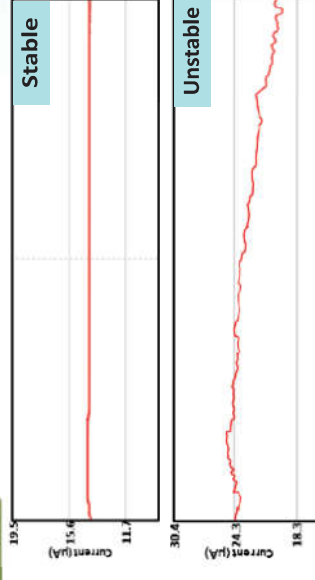
- Calibration:

1. Dilute concentrated marker (C109120) to 1x.
2. Place 1x lower marker at MC1/ M position.

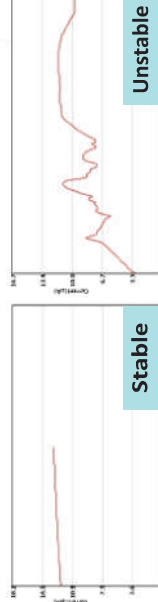


Once the the calibration step is successful, check the HV purge, sample injection and separation current. If the current is unstable, please refer to troubleshooting (2).

HV purge



Sample injection



Separation

