

Packing list for 1 pc/2 pcs cartridge kit

Applications of N1 cartridge

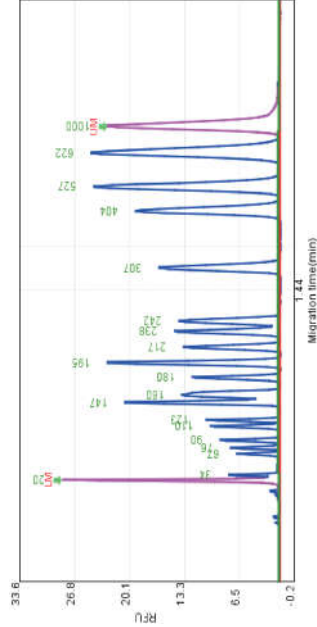
High Sensitivity Cartridge Kit		Applications
1 pc (C109109)	2 pcs (C109209)	
High Sensitivity Cartridge (N1)	1 pc	2 pcs
Alignment Marker (20bp & 100bp, C109109)	100 µl*1	100 µl*2
Separation Buffer	50 ml	50 ml
Dilution Buffer	15 ml	15 ml
Mineral Oil	8 ml	8 ml
Accessory Package		
Buffer Tray	2 pcs	2 pcs
PCR Vial	8 Strip *1	
Dropper	2 pcs	2 pcs

Methods	Best Range	Applications
cDNA	10~5000 bp (Best resolution: 4-10 bp)	Cell free DNA detection Low concentration sample

Best resolution is determined by the DNA ladder, 15-622bp DNA size marker (C109200).

Analyzed result of 15-622bp DNA size marker (C109200) by N1 cartridge

cfDNA

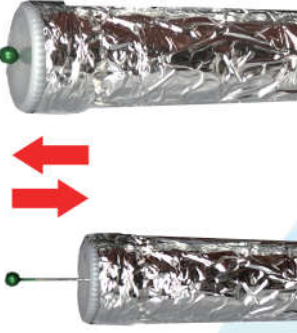


Unpacking procedure

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.



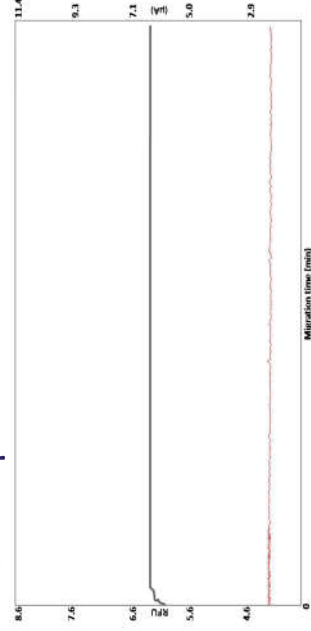
**Remove aluminum foil before use*

Notification: N1 cartridge is light sensitive. Always store N1 cartridge in dark.

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

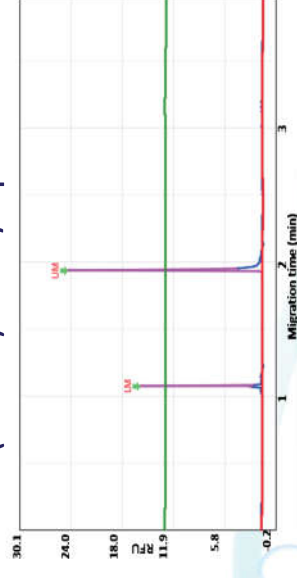


- HV check: The current (gray line) should be flat and > 2 μ A.



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

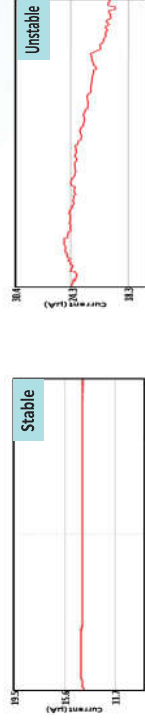
- Calibration: Place alignment marker 20 bp & 1000 bp (C109100) at MA1/M position.



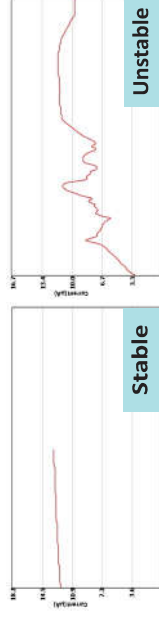
Warning: N1 cartridge is not applicable to Micro Vial (C104250).

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

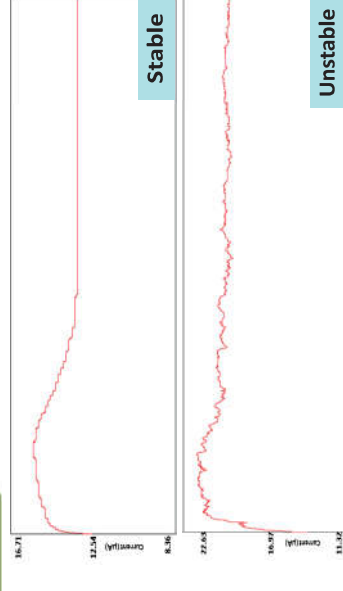
HV purge



Sample injection



Separation



Size Marker Dilution:

Supplied size marker has to be diluted before analysis

- 15-622 bp DNA size marker (C109200): 20 fold dilution
- 50-3000 bp DNA size marker (C109300): 5 fold dilution