

Packing list for 1 pc/2 pcs cartridge kit

	High Sensitivity Kilo Base Cartridge Kit	
	1 pc (C10916-2)	2 pcs (C10924-3)
High Sensitivity Kilo Base Cartridge (N3)	1 pc	2 pcs
Alignment Marker (20bp & 100bp, C109200)	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

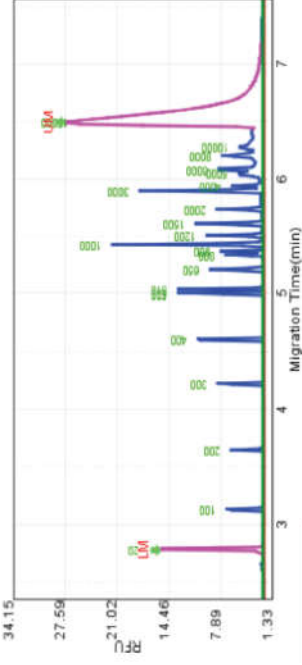
Applications of N3 cartridge

Methods	Best Range	Applications
gDNA-2kV	10~50000 bp (AM: 20~1K only)	Plasmid purification & Vector cloning analysis
gDNA-4kV	10~50000 bp (AM: 20~1K only)	
gDNA	Up to 15000 bp genomic DNA	Genomic DNA analysis
MA-10-02-1500	10~15000 bp (Best resolution: 4~10bp)	Large size fragment analysis
MA-10-06-500	10~15000 bp (Best resolution: 4~10bp)	

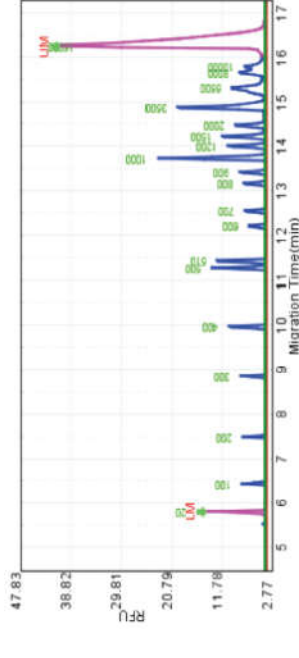
Best resolution is determined by the DNA ladder, 15-622bp DNA size marker (C109200).

Analyzed result of 100bp- 10kb DNA size marker (C109400) by N3 cartridge.

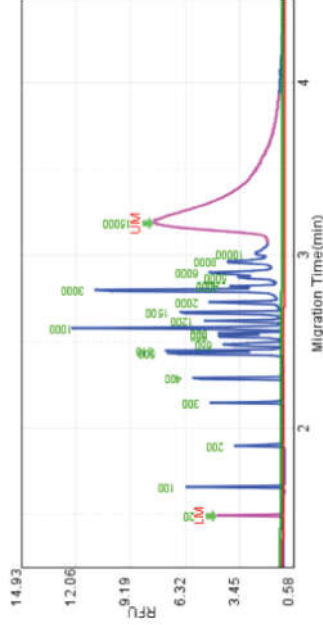
gDNA



MA-10-02-1260



MA-06-10-300



§ 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 alignment marker (20 bp & 1000 bp, C109100) was loaded ≥ 20 µl in 0.2 ml PCR tube and placed at MA1/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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High Sensitivity Kilo Base Cartridge Kit

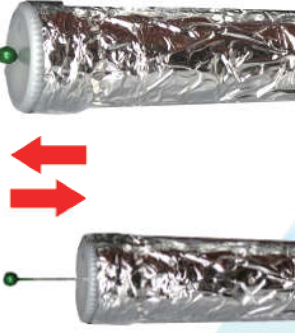


Unpacking procedure

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.



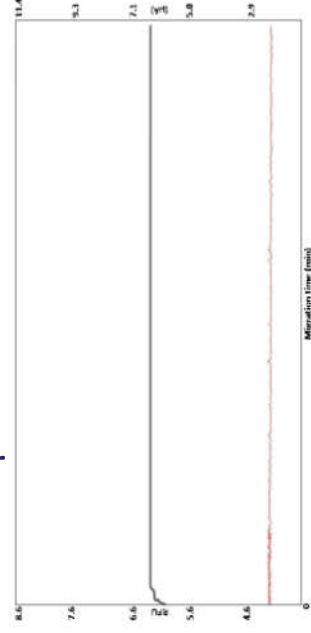
**Remove aluminum foil before use*

Notification: N3 cartridge is light sensitive. Always store N3 cartridge in dark.

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

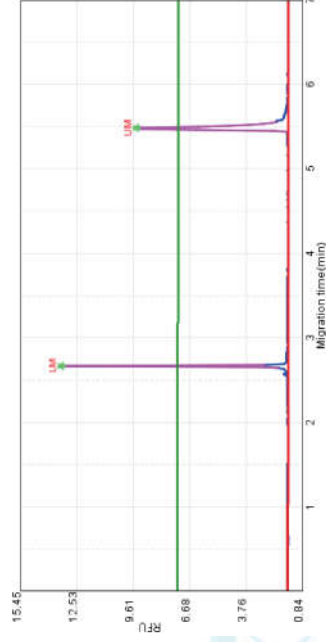


- HV check: The current (gray line) should be flat and > 2 μ A.



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

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

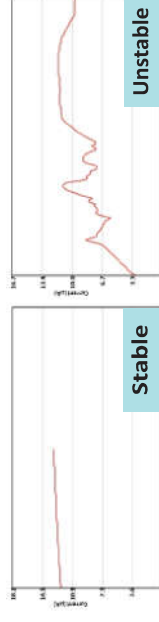


Once the the calibration step is successful, check the HV purge, sample injection and separation current. If the current is unstable, please refer to troubleshooting (2).

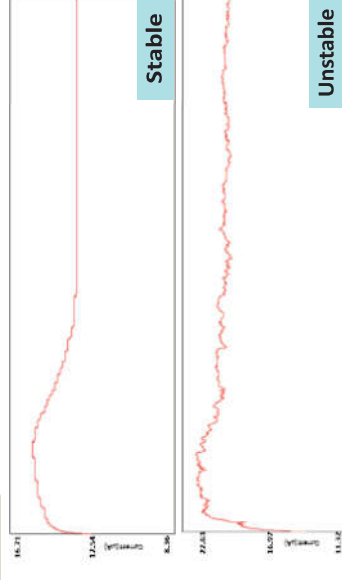
HV purge



Sample injection



Separation



Size Marker Dilution:

Supplied size marker has to be diluted before analysis

- 100bp - 10kb DNA size marker (C109400): 2 fold dilution
- 500bp - 23kb DNA size marker (C109700): 5 fold dilution