

Packing list for 2 pcs/8 pcs cartridge kit

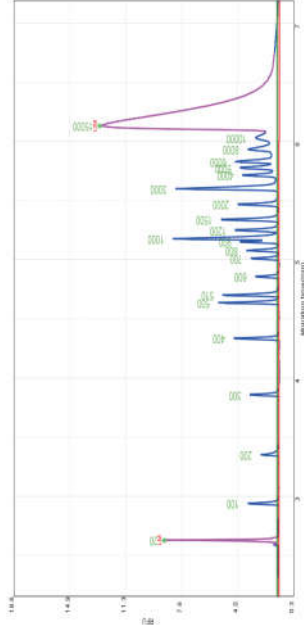
Applications of S3 cartridge

	High Resolution Cartridge Kit		Methods	Best Range	Applications
	2 pcs (C109202)	8 pcs (C109802)			
High Resolution Cartridge (S1)	2 pcs	8 pcs	gDNA-2kV	10 ³ ~50000 bp (AM: 20-1K only)	Plasmid purification & Vector cloning analysis
Alignment Marker (20bp & 100bp, C109100)	100 µl*2	100 µl*8		10 ³ ~50000 bp (AM: 20-1K only)	
Separation Buffer	50 ml	250 ml	gDNA	Up to 15000 bp genomic DNA	Genomic DNA analysis
Dilution Buffer	15 ml	50 ml		10 ³ ~15000 bp (Best resolution: 4-10 bp)	
Mineral Oil	8 ml	25 ml	M4-10-02-1260	10 ³ ~15000 bp (Best resolution: 4-10 bp)	Large size fragment analysis
Accessory Package			M4-10-06-300	10 ³ ~15000 bp (Best resolution: 4-10 bp)	
Buffer Tray	2 pcs	8 pcs			
PCR Vial	8 Strip *1				
Dropper	2 pcs	8 pcs			

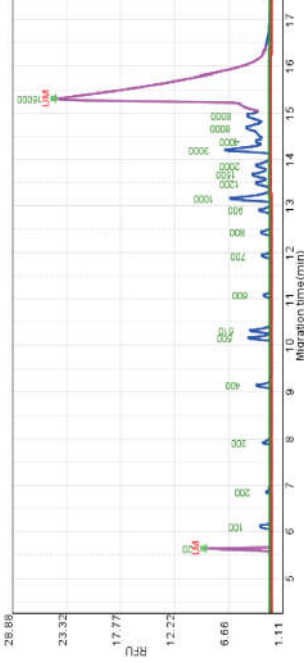
Best resolution is determined by the DNA ladder, 15-622bp DNA size marker (C109200).

Analyzed result of 15-622bp DNA size marker (C109200) by S3 cartridge

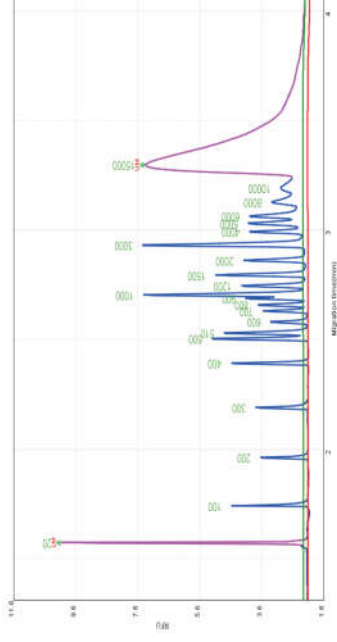
gDNA



M4-10-02-1260



M4-06-10-300



§ 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”.

Kilo Base Cartridge Kit



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 New Taipei City 23141, Taiwan (R.O.C.)

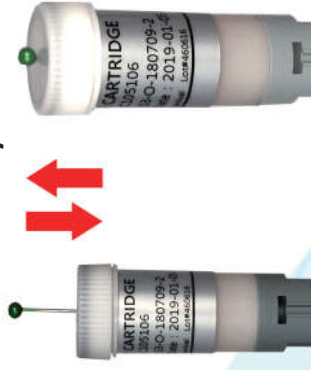
Biopptic

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.

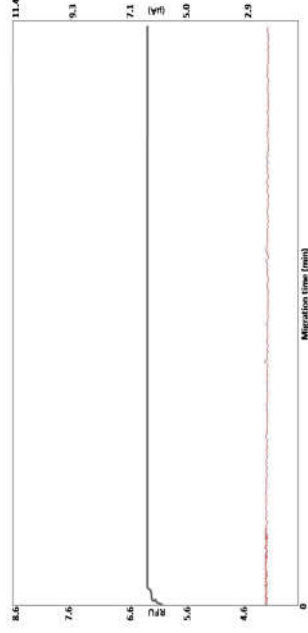
3. Remove the pin and clean cartridge cap and tip with tissue. Make sure the cartridge is always kept in vertical position.



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

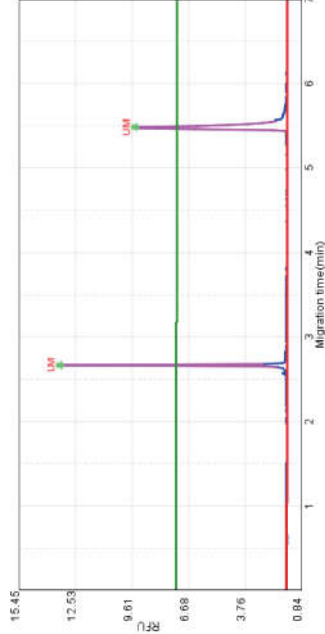


- HV check: The current (gray line) should be flat and $> 2 \mu\text{A}$.



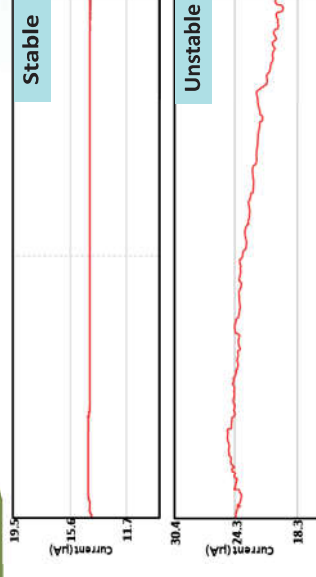
*If the HV check failed, please refer to troubleshooting (1).

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

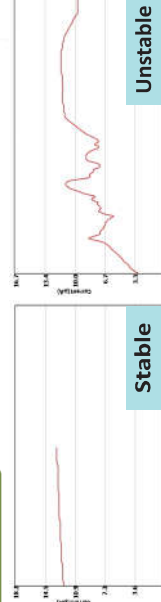


Once the the calibration step is successful, check the HV purge, sample injection and separation current. If the current is unstable, please refer to troubleshooting (2).

HV purge



Sample injection



Separation

