

Packing list for 2 pcs/8 pcs cartridge kit

Applications of S2 cartridge

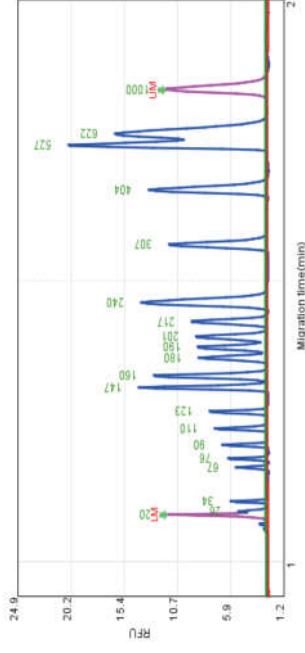
	High Resolution Cartridge Kit		Applications
	2 pcs (C109202)	8 pcs (C109203)	
High Resolution Cartridge (S1)	2 pcs	8 pcs	Library & Fragmentation
Alignment Marker (20bp & 100bp, C109200)	100 µl*2	100 µl*8	
Separation Buffer	50 ml	250 ml	PCR product screening
Dilution Buffer	15 ml	50 ml	
Mineral Oil	8 ml	25 ml	RFLP
Accessory Package			
Buffer Tray	2 pcs	8 pcs	CRISPR QC & Analysis
PCR Vial	8 Strip *1		
Dropper	2 pcs	8 pcs	*Genomic DNA analysis

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

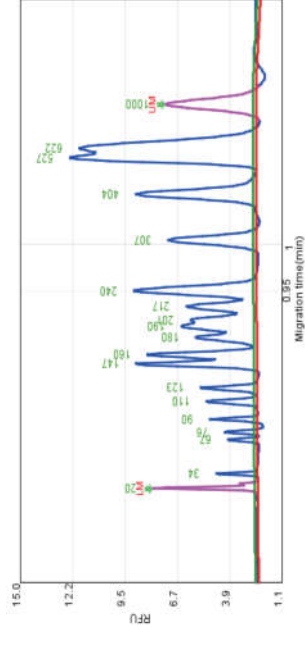
*Genomic DNA size below 5 kb

Analyzed result of 15-622bp DNA size marker (C109200) by S2 cartridge

M4-10-08-160



M4-10-10-120



§ 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 $\geq 20 \mu\text{l}$ 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".

Standard Cartridge Kit



Bioptic

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 Email: service@biopptic.com.tw
 Tel: +886-2-2218-8726
 Fax: +886-2-2218-8727
 Address: 4F., No. 108-3, Minguan Rd., Xindian Dist.,
 New Taipei City 23141, Taiwan (R.O.C.)



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.

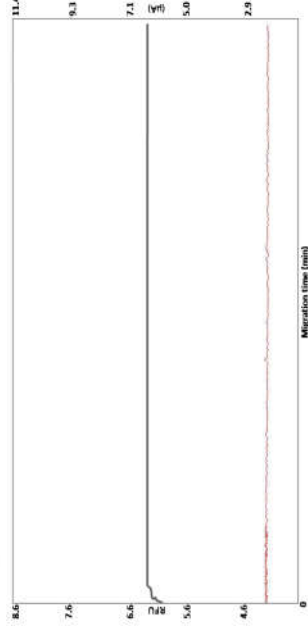
3. Remove the pin and clean cartridge cap and tip with tissue. Make sure the cartridge is always kept in vertical position.



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

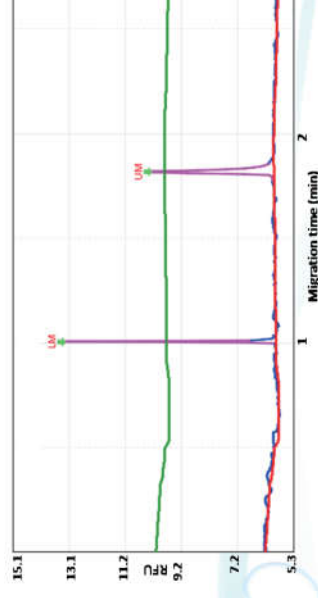


- HV check: The current (gray line) should be flat and > 2 μA .



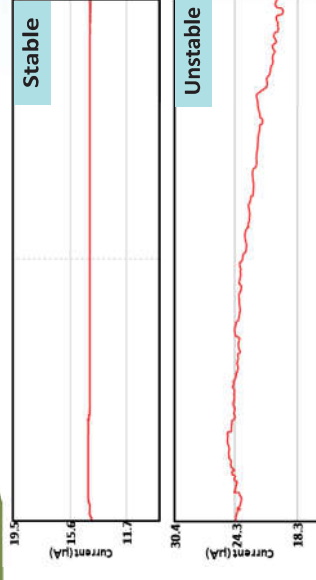
*If the HV check failed, please refer to troubleshooting (1).

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

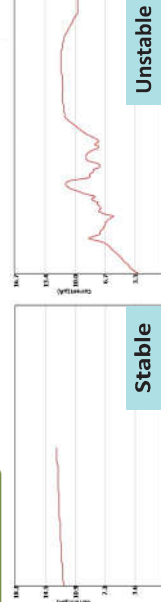


Once the the calibration step is successful, check the HV purge, sample injection and separation current. If the current is unstable, please refer to troubleshooting (2).

HV purge



Sample injection



Separation

