Bioptic Inc.

# Qsep<sub>1</sub> - Lite

## BIO-FRAGMENT ANALYZER

**ALL IN ONE STEP** 



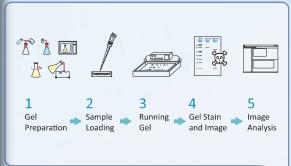
### DO YOU STILL RUN SLAB GEL?

## $Qsep_1$ -Lite provides you an All-in-One step Solution.

 $Qsep_I$  - Lite<sup>TM</sup> is an All-in-One fully-automated CE system which provides a convenient, rapid and highly reproducible system the size and concentration analysis of DNA or RNA. One cartridge, one method with simple mode of software operation, the user will only need few steps to start and get the Result/Report in minutes. With this special design, user will no longer need to do gel preparation, sample loading, staining/distaining and photograph under the UV light.  $Qsep_I$  - Lite platform not only saves time but also provides better resolution, higher detection sensitivity with reliable qualitative and quantitative results in matter of minutes.



#### > 1 hour required



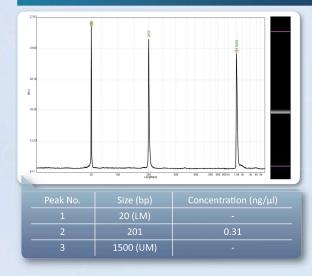
	Qsep <sub>1</sub>
Gel Preparation	No r
Operation	Automatic
Analytic Time	3 to 5
Resolution	1 to
Sensitivity	20 (p <sub>i</sub>
Reproducibility	Hi
Result Interpret	Accurate size an
Data Storage	Digita
Total Analytic Time	3-15

**On-site Monitoring** 

Qsep <sub>1</sub> -Lite				
No need				
Automatic sampling				
3 to 5 mins				
1 to 4 bp				
20 (pg/ μl)				
High				
Accurate size and concentration				
Digital files				
3-15 mins				
No need				

Slab Gel			
Gel solution/Gel polymerized required			
Manual loading			
> 30 mins			
> 50 bp			
ng level			
Operation dependent			
Visual identity			
Photo image			
> 1 hour			
Necessary			

#### Gets size and concentration in 3 mins



★ Gel preparation
★ Quantitative tool
★ Toxic contact risk
★ Sample migrate off the gel
✓ Automatic system
✓ Simple mode software
✓ Qualitative and quantitative in one analysis
✓ High resolution/ High sensitivity/ High reproducibility
✓ Multiple applications

Export PDF/ Word/ Excel format of report

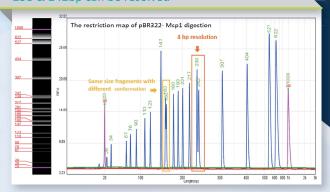
## Multiple Applications of Qsep<sub>1</sub>-Lite

- PCR product screening
- Restriction fragment length polymorphism (RFLP)
- CRISPR QC

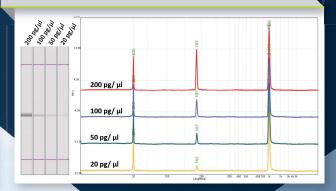
- Genomic DNA analysis
- Plasmid DNA QC
- High molecular weight DNA analysis
- Cell-free DNA QC
- Total RNA QC
- RNA analysis

## High Resolution- 1 to 4 bp resolution

238 & 242bp can be resolved

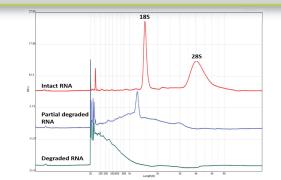


#### High Sensitivity- LOD down to 20 pg / μl



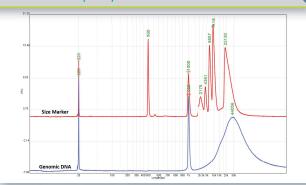
#### Total RNA QC- RNA Integrity Check

Provide RNA Quality Number (RQN) index



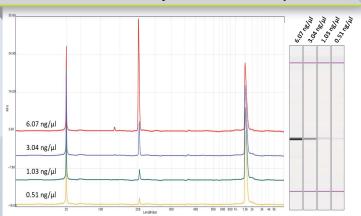
Large Size DNA Analysis- Sizing range up to 50 kb

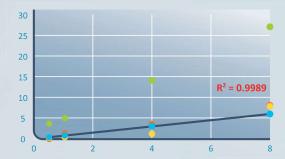
Genomic DNA quality check



#### Quantitative Analysis-

Get size and concentration information in one analysis





Dilution Factor	Photometer	Fluorometer	CE Analyzer	$Qsep_1$ -Lite
1x	7.67	7.48	27.87	6.07
2x	3.52	1.23	14.58	3.04
5x	1.03	0.62	5.50	1.03
10x	-	0.37	2.91	0.51

## Specifications of Qsep<sub>1</sub>-Lite

Separation Voltage: 1~8 kV

Connection: Cable

Power Source: AC 100- 240V

Maximum Power: 30W

System Weight: 5.5 kg

Dimension: 24\* 21\* 30 cm

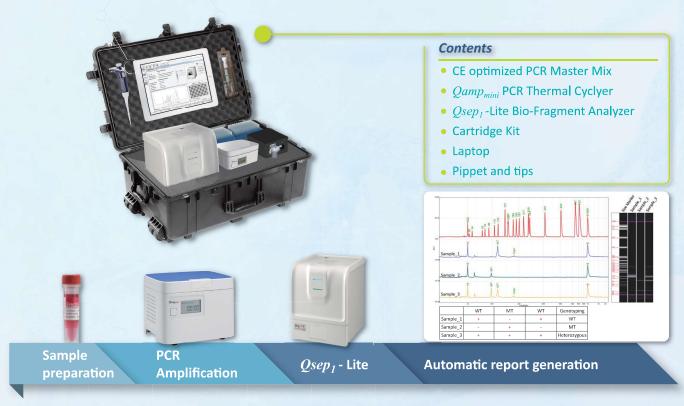
System Type: 1 Channel Portable System

Automated Sampling: 1~8 samples



## Qsep<sub>1</sub>-Lite Mobile Gene Detection Suitcase

 $Qsep_{I}$  - Lite Mobile Gene Detection Suitcase is a portable laboratory design which can be used in everywhere, e.g., small clinics and farm. With this case, user can do genetic detection on-site and get reports in about 1 hour. This carry-on case provides a total solution including the Direct PCR Master Mix, palm size PCR machine and  $Qsep_{I}$  - Lite Bio-Fragment Analyzer. Samples such as blood, swab, leaf, cell, or animal tissue, can be added into PCR reagent without additional extraction steps and input into  $Qamp_{mini}$  PCR thermal cycler to do amplification. After PCR, the samples can be analyzed by  $Qsep_{I}$  - Lite and get the results within few minutes.



#### • DirectGO PCR Master Mix:

- ✓ Add sample into the PCR reagent directly. No need to do DNA extraction/purification
- ✓ Store in room temperature (1 month)

#### • *Qamp<sub>mini</sub>* Thermal Clcyer :

- ✓ Palm size PCR machine with programable chip design
- ✓ One Button to Run

#### Qsep<sub>1</sub>-Lite Bio-Fragnent Analyzer :

- ✓ 3-5 mins to get results
- ✓ Peak calling function
- ✓ Generate the report automatically

Order info	rmation	
Catalog No.	Product	Land Dan
C100001-L	Qsep <sub>1</sub> -Lite Bio-Fragment Analyzer	00
C105201-L	L2-Standard Cartridge Kit for <i>Qsep</i> <sub>1</sub> -Lite	2 Cartridges/ Box
C105202-L	L1-High Resolution Cartridge Kit for $Qsep_l$ -Lite	2 Cartridges/ Box
C105206-L	L3-Kilobase Cartridge Kit for <i>Qsep</i> <sub>1</sub> -Lite	2 Cartridges/ Box
C105210-L	LR1-RNA Cartridge Kit for Qsep <sub>1</sub> -Lite	2 Cartridges/ Box
C105201-LQ	LQ2-Standard Quantitative Cartridge Kit for $\mathit{Qsep}_1$ -Lite	2 Cartridges/ Box
C105202-LQ	LQ1-High Resolution Quantitative Cartridge Kit for $Qsep_I$ -Lite	2 Cartridges/ Box
C105205-LQ	LQN1-High Sensitivity Quantitative Cartridge Kit for $Qsep_1$ -Lite	2 Cartridges/ Box
Catalog No.	Product	
C100001-L-ML	Mobile Gene Detection Suitcase-Qsep <sub>1</sub> -Lite package	

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