

It's time to say goodbye to the tedious steps of DNA/RNA fragment analysis.

BiOptic offers you the FASTEST, EASIEST, and the MOST COST-EFFECTIVE automated platform!

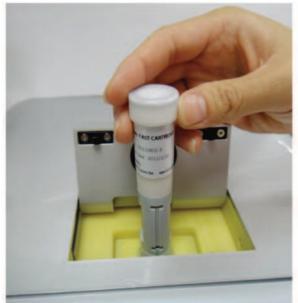


Osep₁₀₀

DNA Analyzer

$Qsep_{100}$ DNA Fragment Analyzer

BiOptic develops, manufactures and commercializes fully integrated analysis systems based on capillary gel electrophoresis (CGE).



We focus on developing rapid, automated capillary electrophoresis analysis systems and applications in the research, pharmaceutical, clinical diagnostics as well as food, agricultural and environmental testing.

Qsep₁₀₀TM capillary gel electrophoresis (CGE) system has strong capabilities in post-PCR processing. The easy-to-use system integrates numbers of complicated and time-intensive steps, including sample preparation and detection, which enable the analysis of complex biological samples in just a few steps. No more gel preparation and gel-view photograph systems are needed in your experiments. Data is stored in digital format, which shorten the time for experiments.

Qsep₁₀₀ system with easy-to-use Q-Analyzer software and pen-shaped gel-cartridges enables the analysis of complex biological samples in few simple steps.

3 Simple Steps to Operate

- 1. Insert Gel-Cartridge
- 2. Place Prepared Samples, Select Method, and Click Run
- 3. View Analyzed Results

Highlights



Q-Analyzer software with simple user interface

Automated Sample Handling

Automated process for 96-well capacity

Replaceable Gel-Cartridge

No need for gel preparation

100-300 sample runs

Rapid Analysis

2-7 minutes per run

Sensitivity

Detects as low as 0.1 ng/ul

Resolution

1-4bp (Between 100-500bp)

Minimal Sample Input Volume

Lowest sample required volume 1 ul

(Standard 20ul)

Lowest sample consumption 1pl

Software

Digital data for qualitative and quantitative analysis

Electropherogram

Gel-View

General Application

Genetic Profiling

Restriction Digested DNA

PCR Production

Synthesized Oligonucleotides

Total RNA QC

Plasmid Purification &

Heterogeneity Analysis

Specific Analysis

DNA Synthesis Primer

HLA Typing

STR DNA Analysis

DNA Hybridization

DNA/ Protein

Specification

Fluorescence Detection

LED Excitation

Voltage: 1-15KV

Connection: USB

Power: 100-240V

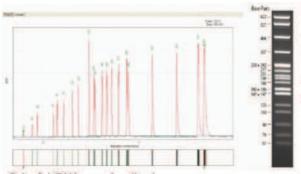
Weight: 15KG

Dimension: 38(L)*30(W)*40(H) CM

Rapid & Affordable Genotyping



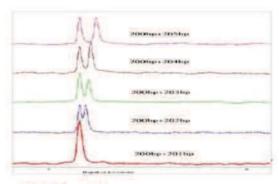




NEB N3032 pBR322

Mspl Digest

1µL of dsDNA was visualized by ethidium bromide staining on a 1.8% agarose gel.



High Resolution

2bp can be resolved.

2pL of dsDNA was visualized by ethidium bromide staining

on a 1.8% agarose gel.

High Resolution

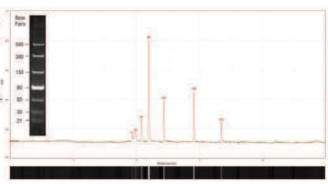
Fragments with the same size but different sequences (160bps) and 4bps difference (238 and 242 bps).

High Sensitivity

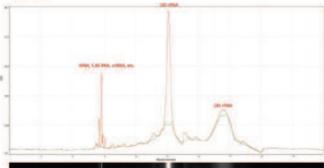
15 (0.056ng/µL),26,34bps detected.

NEB N3036S dsRNA Ladder

1µL of ds RNA ladder was visualized by ethidium bromide staining on a 6% polyacrylamide gel 10V/cm.



4pL of dsRNA ladder was visualized by Qsep100 with RNA cartridge in 5 minutes.



pBR322 Mspl Digest Time Course

At room temperature

Separation of different forms of plasmid:

Linear Form

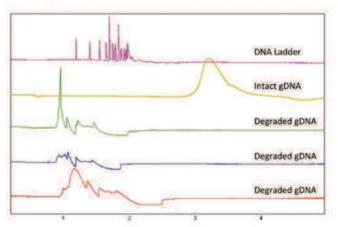
Open Circular Form

Automatic process with only one click!

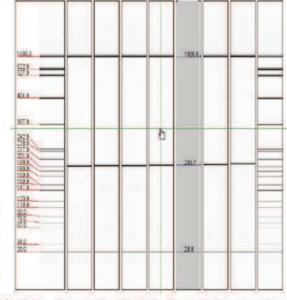
Compare function built-in.

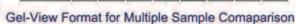
Human Colon Adenocarcinoma Cell Line - sw480

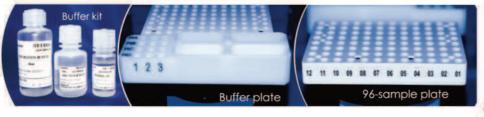
The integrity of RNA has great influence on downstream gene expressing analysis, such as qPCR and microarray analysis.



Quality Control of Genomic DNA Samples









Basic Software Key

Software Kry
Advanced

Portable Air Pump

Advanced Software Key





Separation Tray

Cartridge Stand



Gel Reservoir

Detection Window

Cat No.	Description
C100100	DNA Fragment Analyzer
C104001	Cartridge Stand
C104300	Portable Air Pump
C101010	Basic Software Key
C101011	Advanced Software Key
C105201	2 Standard Cartridge Kit
C105202	2 High Resolution Cartridge Kit
C105210	2 RNA Cartridge Kit
C105801	8 Standard Cartridge Kit
C105802	8 High Resolution Cartridge Kit
C105810	8 RNA Cartridge Kit
C109100	20&1Kbp Alignment Marker
C109102	20&5K Alignment Marker
C109200	15-622bp DNA Ladder
C109300	50-3Kbp DNA Ladder
С109300-НС	High Concentration 50bp DNA Ladder

All Cartridge Kits include 20&1Kbp Alignment Marker & Buffer

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Real-Life Cartridge Image