GeneCE-100

Capillary Electrophoresis System

GeneCE-100 offers nucleic acid quality control for a range of applications, including DNA QC, NGS libraries, cell-free DNA (cfDNA), PCR fragments and RNA QC. It provides consistent high-precision analysis by using the same single-channel cartridge. And it provides flexible sample capacity from 1 to 96 samples.

01 Easy to Use

Equipped with a 10-inch rotatable touch screen, windows system. It can switch between horizontal and vertical screens according to analysis needs.

02 Gel Cartridges

Designed for analyzing at least 200 samples.

03 Automatic Sample Loading

Ready-to-use gel cartridges, without manual intervention.

04 High Sensitivity

Reliable detection with sensitivity down to 1 pg/μL (0.1 μL sample).

05 High Resolution

Resolution down to 1~4 bp for fragment <500 bp (2 bp for fragment <200 bp).

06 Reliable Standard

Provide concentration, size, 28 S / 18 S, DNA integrity indicator (DII), RNA integrity indicator (RII), DV200, etc.

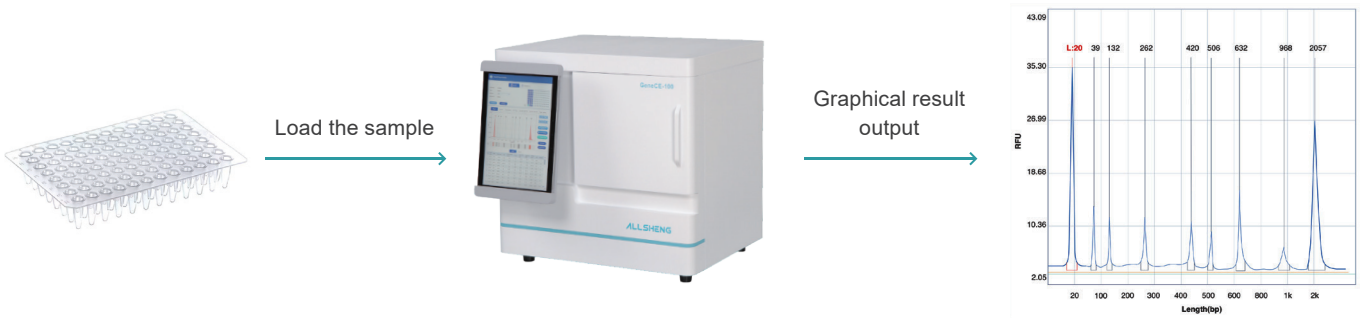
07 Parallel Analysis

Flexible sample capacity from 1 to 96 samples.

08 Multiple Specification

High-sensitivity, high-resolution and standard DNA analysis cartridge kits.

Experimental Process



The fastest analysis time can reach 1 min/sample

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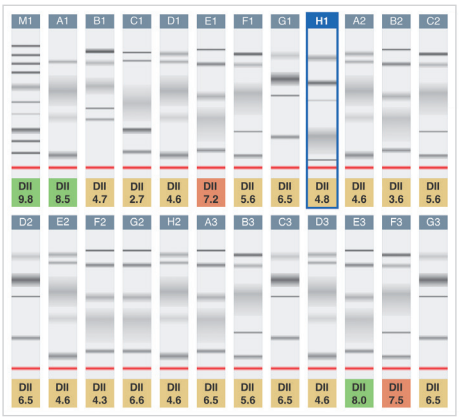
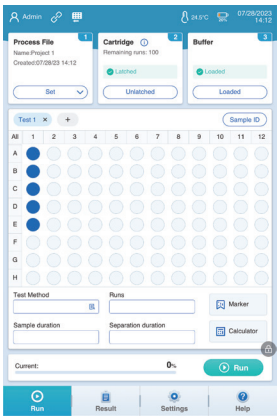
Software Feature

GeneCE-100 provides powerful independent control software that allows for well layout, parameter settings and data analysis through a 10-inch high-resolution touch screen. With an intuitive and simple interface, it is easy to operate and can efficiently complete the progress of sample analysis.

- Software supports 21 CFR part 11 compliance for user and experiment management including user authority and independent account passwords.
- Predefined protocols and sample normalization ensure consistent results.
- Select single or superimposed views of Gel and electropherogram views.
- Unique algorithms can directly reflect the characteristics of peak values, including peak number, peak height, peak width and area.
- Data export flexibility: pdf, wmf, jpg, tif and bmp.





Instrument Specification

Product name	Capillary electrophoresis system
Model	GeneCE-100
Detection method	Fluorescence
System light source	LD laser
Display method	10-inch high-resolution touch screen
Power supply	110~240 V/AC, 50/60 Hz
Weight	<40 kg
Dimension	46×44.5×44.8 cm
Instrument type	Single channel

Operating system	Windows 10 and higher
Throughput	1~96
Detection limit	1 pg/μL (optimized condition)
Resolution	1~4 bp
Detection time	3~5 min/sample
Number of analysis	200
Sample consumption	<0.1 μL
Fragment size CV%	≤5%
Fragment quantitation CV%	≤10%

Reagent Specification

Reagent name	Separation range	Concentration detection limit
High-sensitivity DNA analysis cartridge kits	10~50000 bp	1 pg/μL
High-resolution DNA analysis cartridge kits	10~50000 bp	2 pg/μL
Standard DNA analysis cartridge kits	10~50000 bp	2 pg/μL

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