

# G Series Genetic Analyzer

## Introduction

G Series Genetic Analyzer is a fully automatic multi-channel genetic manipulation platform for fragment analysis and sequencing functions. It can be used in a wide range of industries including agricultural breeding, forensics, food safety and medical diagnostics.

The analyzer is shipped with the following system components: Glue injection system; Optical path system; Automatic sampler system; Temperature control system; Computer and software system; Power circuit module; Rack structure module.



## Performance Advantages

### Wide range of fluorescence collection

Solid-state laser excitation source, excitation wavelength 505nm, detection range up to 650nm, detection fluorescence channel supports up to six colors.

### Quality signal homogeneity

Optical fiber spectral conduction mode, dual-beam laser device, and highly-stable optical path system, ensuring a high degree of homogeneity of the energy signal.

### High compatibility of consumables

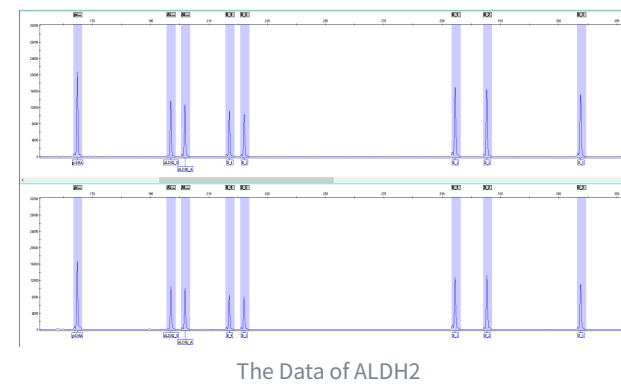
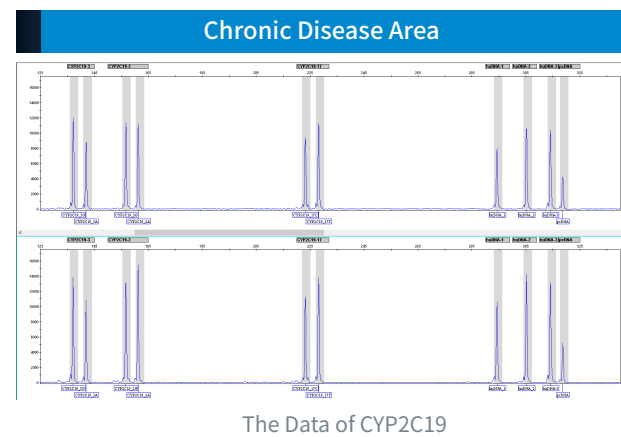
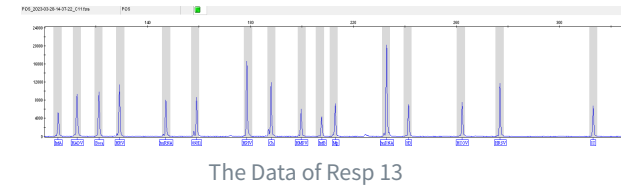
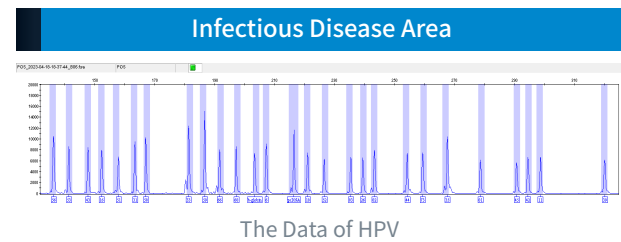
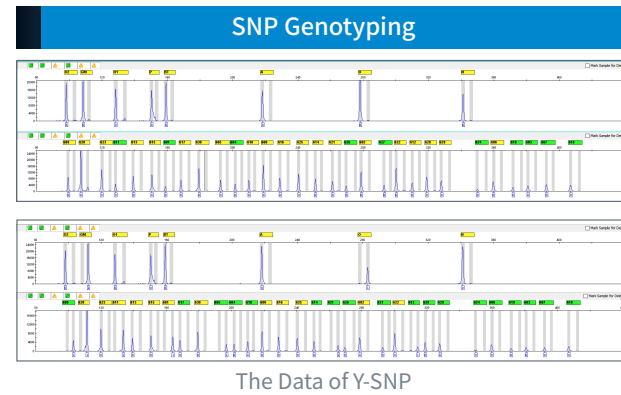
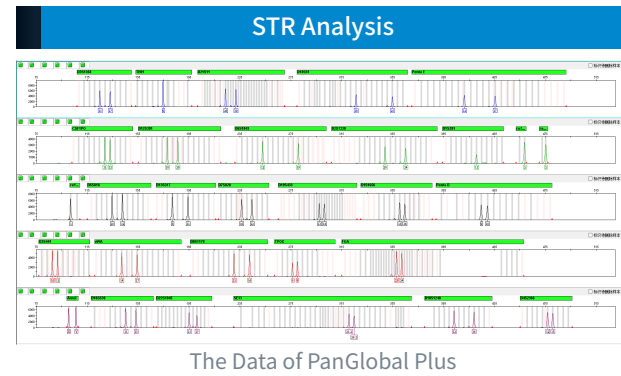
Supportive of the replacement of various types of consumables, like formamides, polymers, and other key consumables.



Parameters	G08	G16	G24
Number of Capillaries	8	16	24
Throughput (36cm/P4 mode)	16 samples/hour	32 samples/hour	48 samples/hour
Dimensions(WxLxH)	61cm x 71cm x 82cm		
Weight	105kg		
Laser Features	New type/High power 505nm solid-state laser		
Laser wavelength (nm)	505		
Range of fluorescence detection (nm)	522—650		
Laser Power (mW)	50		
Voltage Range (kV)	0—20		
Operating Environment	Humidity: 20% - 80% (non-condensing); Room temperature: 20 °C - 30 °C, temperature fluctuation <math>\pm 2</math> °C.		
Denaturation before electrophoresis	No		
Openness of the system	Openness		
Detection time (min)	30		
Capillary Length	36cm (50cm for sequencing function)		
Format	.fsa/.abi		
Warranty (year)	1		
Sampling method	Automatic Sampling, 96-well plate*2		
Polymer method	Automatically inject polymer		
Intelligent sample preparation	Dye set, operation mode, priority, and spectral calibration can be automatically changed by the run group; Support auto-filling priority and adjustment; Support renaming and running of the sample table that has been run.		
Instrument monitor	Status of the A/B sample plate; Real-time monitoring.		

## ● The Application of Fragment Analysis

Provide accurate and reliable experimental data for multiplex fragment analysis.



## ● The Application of Sequencing

Autonomous analysis software with friendly and automated interface for sequencing data analysis.



Sequencing length up to 800bp or more

## ● Open Platform and Wide Application

- ◎ Cell Line Authentication
- ◎ Microsatellite Instability, MSI
- ◎ Copy number analysis
- ◎ STR analysis
- ◎ SNP Genotyping
- ◎ MLPA



## ● Order Information of Equipment

Model	G08	G16	G24
Item No.	A01010016	A01010017	A01010018

## ● Order Information of Consumables

Model	Specification	Item No.
P7 Polymer	28mL/Bottle	A01010019
G08-L50 Capillary Array	50cm	1-07-0101-0063
G16-L50 Capillary Array	50cm	1-07-0101-0064
G24-L50 Capillary Array	50cm	1-07-0101-0065

## ● Order Information of Sequencing Reagents

Model	Specification	Item No.
BD3 Cycle Sequencing Mix	125rxn*20	6-04-1521
	125rxn*5	6-04-1522
5X Sequencing Buffer	112mL	6-04-1523
	28mL	6-04-1524
	1mL	6-04-1525
XT Purification Kit (XT Purification Resin + XT Purification Solution)	5000preps	6-04-1526
	1000preps	6-04-1527

Gennye Tehnologii Zdorovia Ltd  
3-ia ulica Iamskogo Polia 9, ofis 17, Moskva, Rossiia 119121