

以客户为中心

以奋斗者为本

坚持艰苦奋斗

不断学习创新

Company Products Catalog 2026

Mr. Andy Sun | Overseas Sales Director
WeChat/WhatsApp:+86 133 7605 7825

Jiangsu Superbio Biomedical (Nanjing) Co.,Ltd.

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Superbio Company Profile



Jiangsu Superbio Life Science Co., Ltd. (Superbio) was established in August 2011, focusing on the independent R&D and production of forensic DNA testing reagents and related products.

Superbio provides comprehensive DNA Detection solutions by integrating biological DNA technology with **Criminal investigation** and **forensic technology**. The company offers a complete range of products and services for forensic DNA detection, public security, criminal investigation, forensic identification, and scientific research.

Superbio's proprietary "YESU" DNA detection kits serve numerous DNA laboratories across various fields, including public security, criminal investigation, judicial institutions, scientific research, biological companies, and blood centers. Their services include autosome and Y chromosome library building for millions of individuals. Superbio's products are exported to countries such as **Spain, Greece, Romania, Turkey, UAE, Saudi Arabia, Egypt, Nigeria, Angola, India, and Vietnam, etc.**, earning widespread recognition and praise from clients.

YESU DNA STR Detection kits

DNA STR Detection Kits

Advantages

- I. The product has achieved complete localization.
- II. Amplification length is less than 220 base pairs.
- III. Good compatibility with various sample types.
- IV. Excellent resistance to inhibition.
- V. Mass production and large-scale supply.
- VI. Excellent peak balance.
- VII. Short amplification time (saving over 1/3 of the time).)



Individual
Identification



Cell
Identification



Paternity
Testing



DNA
Database

No.	Classification	Quantity
1	Forensic Field Detection Kit(Case Version)	5
2	Autosome Detection Kit	5
2	Y-chromosome Detection Kit	4
4	X-chromosome Detection Kit	2

- 21Plex STR Detection Kit
- A27Plex STR Detection Kit
- A33Plex STR Detection Kit
- Y41Plex STR Detection Kit
- Y44SE Plus STR Detection Kit
- Y62Plex STR Detection Kit
- Y27Plex STR Detection Kit
- Forensic Field, Lyophilized Microspheres Kit

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Classification	Catalog No.	Product Name	Color	Specifications
Autosome Detection Ki	A00002-A-200	21Plex STR Detection Kit	5 Colors	200 Reactions/Box
	A00028-A-200	A27Plex STR Detection Kit	6 Colors	200 Reactions/Box
	A00034-A-200	A33Plex STR Detection Kit	6 Colors	200 Reactions/Box
	A00013-A-100	NC22Plex STR Detection Kit	5 Colors	100 Reactions/Box
Y-chromosome Detection Kit	A00003-100	Y27Plex STR Detection Kit	5 Colors	100 Reactions/Box
	A00025-200	Y41SE STR Detection Kit	6 Colors	200 Reactions/Box
	A00035-200	Y44SE Plus STR Detection Kit	6 Colors	200 Reactions/Box
	A00101-100	Y62Plex STR Detection Kit	8 Colors	100 Reactions/Box
	A00023-50	Y-com STR Detection Kit	5 Colors	50 Reactions/Box
X-chromosome Detection Kit	A00024-50	X18Plex STR Detection Kit	5 Colors	50 Reactions/Box
	A00110-50	X31Plex STR Detection Kit	6 Colors	50 Reactions/Box
Forensic Field (Case) Detection Kit	A00037-A-100	A33Plex STR Detection Kit (6 Colors Case Version)	6 Colors	100 Reactions/Box
	A00109-A-100	A33Plex STR Detection Kit(8 Colors Case Version)	8 Colors	100 Reactions/Box
	A00112-100	Y44SE Plus STR Detection Kit (6 Colors Case Version)	6 Colors	100 Reactions/Box

No.	Classification	Product Name	Color	Compatible Model
1	Autosome Detection Kit	21Plex STR Detection Kit	5-Color	3100,3130,3130XL,3500,3500XL,3730,3730XL,SeqStudio, Honor Series
2		A27Plex STR Detection Kit	6-Color	3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
3		A33Plex STR Detection Kit	6-Color	3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
4		NC22Plex STR Detection Kit	5-Color	3100,3130,3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
5	Y-chromosome Detection Kit	Y27Plex STR Detection Kit	5-Color	3100,3130,3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
6		Y41SE STR Detection Kit	6-Color	3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
7		Y44SE PLUS STR Detection Kit	6-Color	3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
8		Y62Plex STR Detection Kit	8-Color	Honor 1816,Honor 1824
9		Y-COM STR Detection Kit	5-Color	3100,3130,3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
10	X-chromosome Detection Kit	X18Plex STR Detection Kit	5-Color	3100,3130,3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
11		X31Plex STR Detection Kit	6-Color	3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series
12	10μl Lyophilized Micros pheres	21Plex Detection Kit	5-Color	3100,3130,3130XL,3500,3500XL,3730,3730XL,SeqStudio, Honor Series
13		A33Plex Detection Kit	6-Color	3130XL,3500,3500XL,3730,3730XL, SeqStudio, Honor Series

21Plex STR Detection Kit

Catalog No.A00002-A-200, 200 Reactions/Box

20

Autosomal STRs

13

CODIS Loci

7

Non-CODIS Loci

2

Low Stutter Loci

1

Sex Locus



High Sensitivity, High Individual Identification Rate, and High Non-Paternity Exclusion Rate

Using FRET fluorescent dyes, the kit offers higher sensitivity (0.125 ng), accuracy, and inter-color balance. It covers all STR loci in the current mainstream kits, ensuring a very high non-paternity exclusion rate and individual identification rate.



Core and Extended Loci

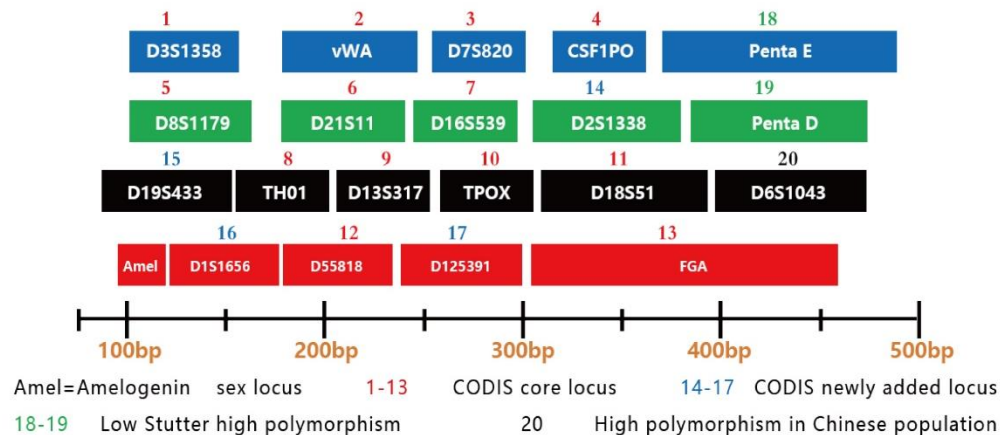
Simultaneously amplifies 20 STR loci and 1 sex locus, with 13 core loci positioned before 300 bp to ensure the priority amplification of core loci.



High Compatibility

Suitable for direct amplification of various sample types, such as bloodstains, semen stains, saliva, hair, nails, cartilage, and other human tissues. It also supports various extraction methods, including Chelex-100, silica bead, magnetic bead, and phenol-chloroform extraction.

21Plex Loci Distribution Diagram



A27Plex STR Detection Kit

Catalog No.A00028-A-200, 200 Reactions/Box

24

Autosomal STRs

1

Y-Chromosome STR

1

Y-Chromosome Indel

1

Sex Locus



Advanced Technology

Utilizing six-color fluorescence detection technology, this kit enables the multiplex amplification and detection of 24 autosomal STRs, 1 sex locus, 1 Y-chromosome STR, and 1 Y-chromosome Indel in a single tube, significantly increasing polymorphic information content and individual identification rate.



High Compatibility and Accuracy

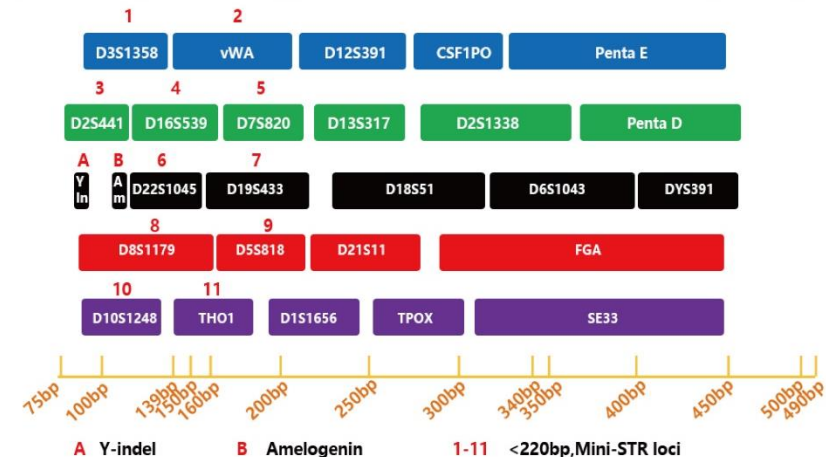
Includes 20 low-mutation-rate STR loci (mutation rate below 1%) and 7 rapidly-mutating loci (mutation rate above 1%).



Strong Individual Identification Capability

Contains 11 mini-STRs (amplification length less than 220bp) for autosomal loci, allowing for more locus typing when amplifying degraded samples. Suitable for male lineage investigation, it also offers strong individual identification capability.

A27Plex Loci Distribution Diagram



A33Plex STR Detection Kit

Catalog No.A00034-A-200, 200 Reactions/Box

30

Autosomal STRs

1

Y-Chromosome STR

1

Y-Chromosome Indel

1

Sex Locus



Strong Individual Identification Capability

Specifically designed for domestic autosomal cases, the kit selects highly polymorphic loci suitable for the Chinese population based on allele typing of Chinese population data. It includes loci for anti-trafficking such as D8S1132, D6S477, D19S253, D3S3045, D15S659, D10S1435, as well as highly polymorphic loci like SE33, Penta D, Penta E, FGA, and D6S1043.



High Sensitivity and Compatibility

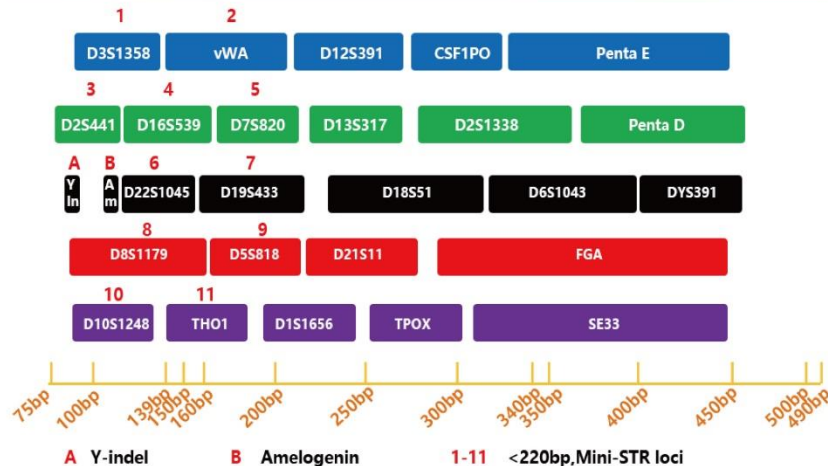
Using FRET primers, the kit offers higher sensitivity. The addition of a positive internal control (IPC) allows for rapid assessment of sample quality. It is compatible with the direct amplification of most samples and the amplification of purified DNA.



Rapid Amplification

Suitable for anti-trafficking databases, the kit includes 12 mini-STRs (loci with amplification lengths within 220 bp), which can provide more information from degraded DNA samples. The theoretical amplification time is approximately 70 minutes, allowing for quicker clue acquisition.

A33Plex Loci Distribution Diagram



NC22Plex STR Detection Kit

Catalog No.A00013-A-100,100 Reactions/Box

Five-Color Fluorescence Detection Platform

Simultaneous Multiplex Detection of 20 Supplementary Forensic Loci, 1 CODIS Locus, and 1 Sex Locus (Amelogenin)

20

Loci

1

CODIS Locus

1

Sex Locus



Fast speed

Featuring ultra-high resolution, sensitivity, and inhibitor resistance, this platform enables rapid amplification with an amplification time of less than 1.5 hours.



More tested loci

When used in conjunction with our 21Plex fluorescence detection kit, the total number of detectable loci can reach up to 40.



Good compatibility

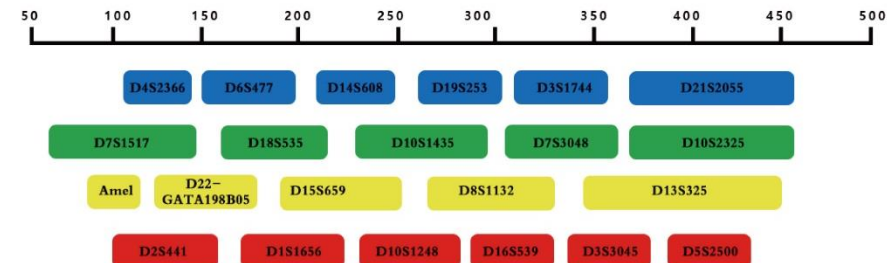
Offers high compatibility with various sample types for both direct amplification and the amplification of purified DNA.



Wide application scope

Suitable for forensic analysis, kinship testing, and research in human genetic identification.

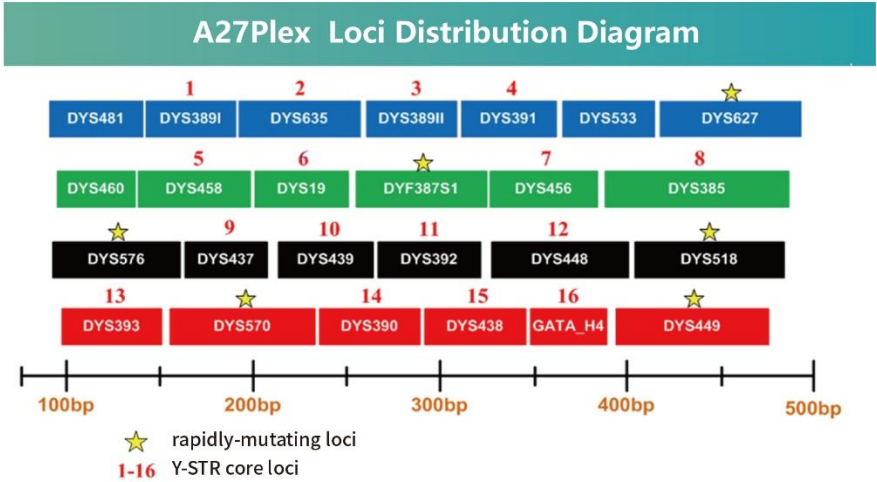
NC22Plex Loci Distribution Diagram



Y27Plex STR Detection Kit

Catalog No.A00013-A-100,100 Reactions/Box

Five-Color Fluorescence Detection Platform, Multiplex Amplification Detecting 27 Y-Chromosome STR Loci



Ideal for male lineage investigation with strong individual identification capabilities.



DNA database building, including mainstream Y-chromosome STR databaseloci.



High compatibility with various sample types for both direct amplification and the amplification of purified DNA, enabling rapid amplification with an amplification time of less than 2 hours.

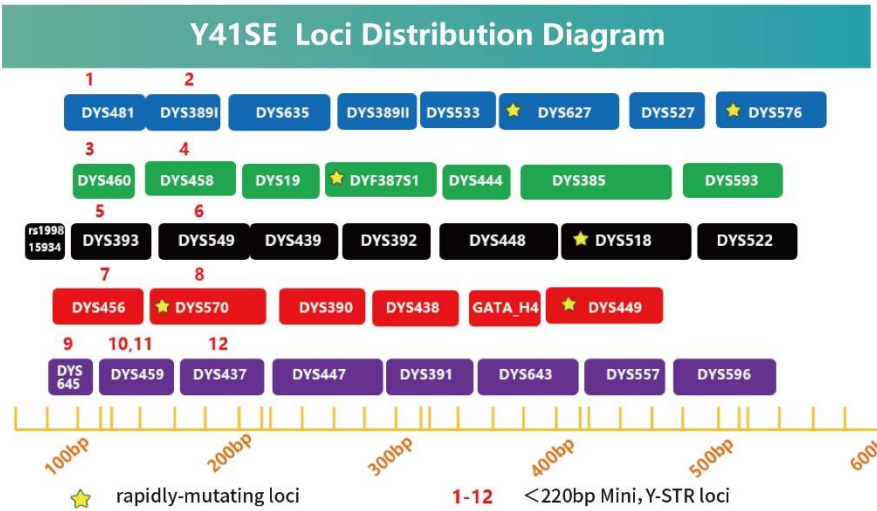


Suitable for forensic analysis, kinship testing, and research in human genetic identification purposes.

Y41SE STR Detection Kit

Catalog No.A00025-200,200 Reactions/Box

Six-Color Fluorescence Detection Platform, Simultaneous Amplification of 40 Y-Chromosome STR Loci



Fast and Efficient

Utilizes high-efficiency DNA polymerase, with a PCR reaction time as short as 70 minutes, significantly enhancing detection efficiency.



Powerful Functionality

Fully meets the needs of cases, database construction, anti-trafficking efforts, and kinship testing.



High Compatibility

Compatible with direct amplification of most samples and the amplification of purified DNA.



Strong Individual Identification Capability

Suitable for Y-STR database construction, ideal for male lineage investigation, and offers strong individual identification capabilities. It includes all 35 loci that are mandatory and preferential in Y-STR database standards.

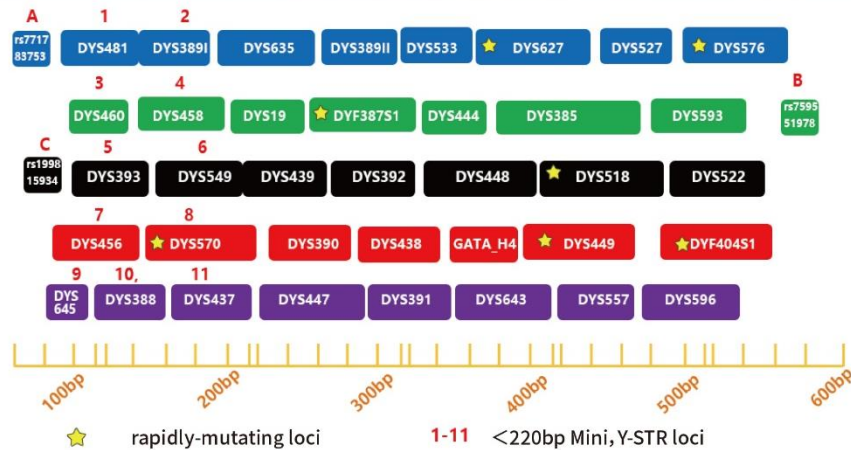
Y44SE Plus STR Detection Kit

Catalog No.A00035-200,200 Reactions/Box

Six-Color Fluorescence Detection Platform, Simultaneous Amplification of 41 Y-Chromosome STR Loci



Y44SE Plus Loci Distribution Diagram



Six-Color Fluorescence Detection

The platform utilizes six-color fluorescence to simultaneously amplify 41 Y-chromosome STR loci.



Powerful Performance

Ideal for Y-STR database construction, suitable for male lineage investigation, and offers strong individual identification capabilities. It includes all 35 loci that are mandatory and preferential in Y-STR database standards.



Direct Amplification Without Extraction

Enables direct amplification of bloodstains or saliva stains on filter paper or FTA cards without the need for template extraction and purification. It is also suitable for extracted DNA templates, with a very high sample detection rate.



High Compatibility

Compatible with direct amplification of most samples and the amplification of purified DNA.

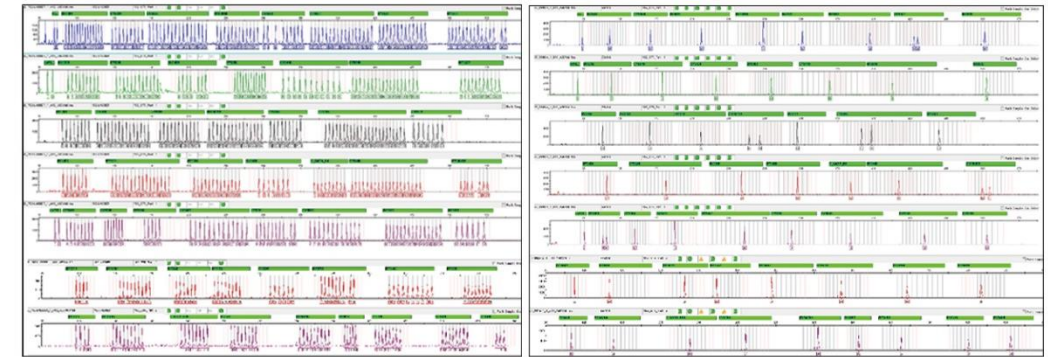
Y62Plex STR Detection Kit

Catalog No.A00101-100,100 Reactions/Box

Based on the World's First 8-Color Fluorescence Resonance Energy Transfer Technology, Simultaneously Amplifies 62 Loci.



Y62Plex Detection Results (Y62 Ladder Chart) (Positive Control with 9948 Image)



Suitable for Degraded Samples

Can accommodate more loci within small fragments (300 bp or less), suitable for degraded samples.

High Resolution

Obtains correct typing of 62 loci in a single reaction tube, with higher resolution than other similar products on the market.

High Individual Identification Rate and Non-Paternity Exclusion Rate

Offers higher cumulative individual identification power and non-paternity exclusion rate. When used alone or in combination with other commercial kits, it provides rapid, high-resolution genetic testing products and technology for public security criminal investigation, forensic identification, and paternity testing.

High Sensitivity

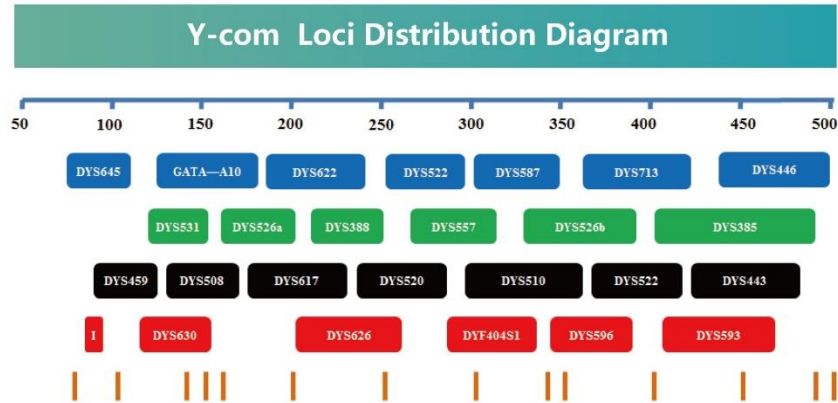
Optimized PCR buffer system provides higher sensitivity and stronger inhibition resistance, enhancing the detection rate of samples containing inhibitors, with a minimum detection limit of 50 pg.

WORLD'S FIRST
EIGHT-COLOR
FLUORESCENCE
TECHNOLOGY

Y-com STR Detection Kit

Catalog No.A00023-50,50 Reactions/Box

Five-Color Fluorescence Detection Platform, Multiplex Amplification Detecting 29 Human Y-Chromosome STR Loci



Wide Range of Applications

Suitable for forensic individual identification, paternity testing, DNA genealogy construction, and lineage investigation.



Used in Conjunction with Y41SE

When used together with Y41SE, it can detect 66 Y-STR loci.



Excellent Specificity

Contains multiple exclusive genetic markers, offering better polymorphism and heterozygosity. It provides higher individual identification rates and non-paternity exclusion rates.



Direct Amplification Without Extraction

Enables direct amplification of bloodstains or saliva stains on filter paper or FTA cards without the need for template extraction and purification.

X18Plex STR Detection Kit

Catalog No.A00024-50, 50 Reactions/Box

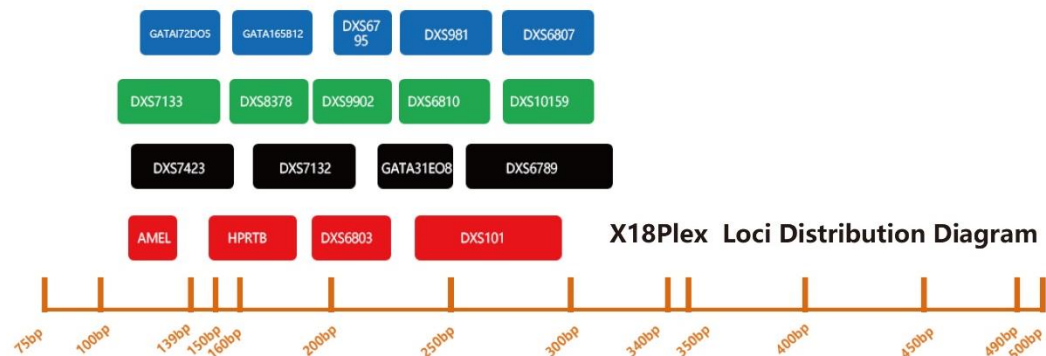
17

X-Chromosome Loci

1

Sex Locus

- **High Resolution** Obtains accurate typing of 18 loci in a single tube reaction.
- **High Sensitivity** Utilizes a high-performance PCR buffer system for enhanced sensitivity and strong inhibition resistance, achieving a minimum detection limit of 125 pg.
- **Fast and Efficient** Employs efficient DNA polymerase, with a PCR reaction time as short as 90 minutes, significantly improving detection efficiency.
- **Direct Amplification Technology** Samples can be directly used for PCR amplification without the need for DNA extraction.
- **Excellent Compatibility** Compatible with direct amplification of various sample types and the amplification of purified DNA.
- **Wide Applicability** Suitable for identification in complex familial relationships, disputed paternity cases (father-daughter), half-sisters with the same father, grandparent-grandchild relationships, and other special cases requiring determination of parentage. It serves as an effective supplement to autosomal and Y-chromosome STR kits.



X31Plex STR Detection Kit

Catalog No.A00110-50,50 Reactions/Box

30

X-Chromosome Loci

1

Sex Locus

01

The kit uses six-color fluorescent labeling technology, with highly efficient fluorescent molecules (energy transfer) that provide high sensitivity.

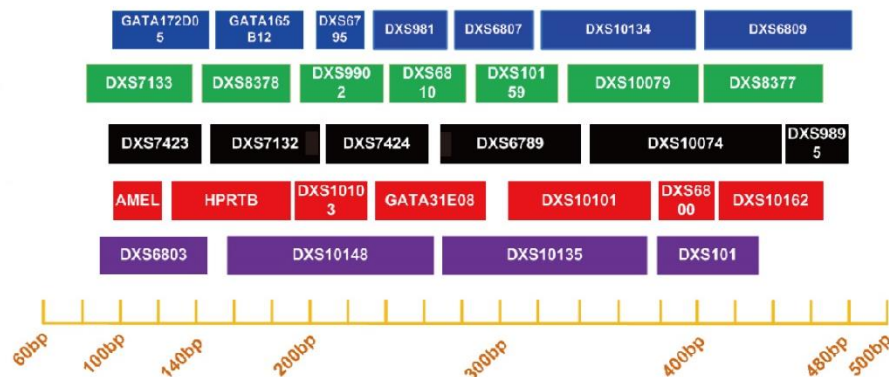
02

The selected loci have a high number of alleles, with evenly distributed common alleles. All loci are 4-5 nucleotide repeats, meeting the ideal conditions for forensic STR loci and suitable for STR-PCR multiplex amplification.

03

The design and selection of primers are highly specific, eliminating analytical errors due to homology. The entire set of primers is designed with uniform parameters to ensure consistent annealing temperatures, achieving amplification stability and balance. This allows for reproducible, sensitive, and parallel efficient amplification in multiplex PCR processes.

X31Plex Loci Distribution Diagram



A33Plex STR Detection Kit (6 Colors Case Version)

Catalog No.A00037-A-100,100 Reactions/Box

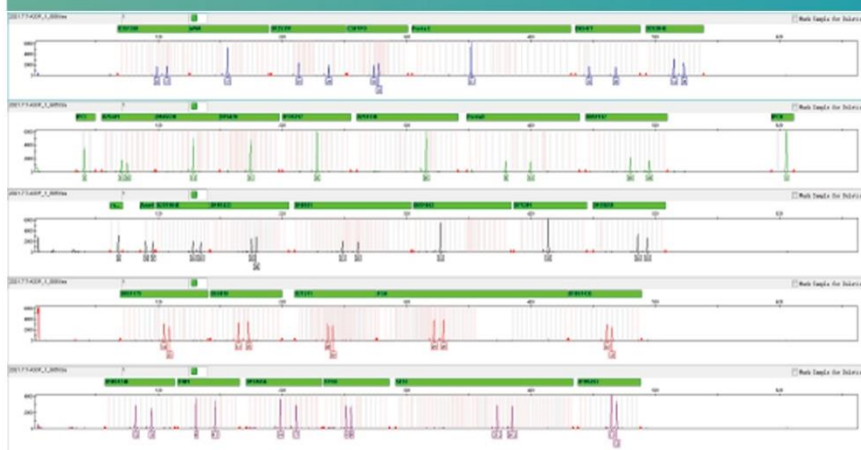


Higher
Sensitivity

Stronger
Inhibition Resistance

Optimized for high-performance PCR amplification, this kit offers enhanced sensitivity and stronger inhibition resistance, with a minimum detection limit of 40 pg. This significantly increases the detection rate of samples containing inhibitors, enabling the extraction of more genetic information from challenging case samples, including touch, degraded, and inhibitor-containing samples. It is particularly suitable for genetic analysis of on-site biological evidence and degraded materials.

Detection Results of A33Plex on the Genetic Analyzer Honor1816 (Samples)



A33Plex STR Detection Kit (8 Colors Case Version)

Catalog No. A00109-A-100,100 Reactions/Box



Eight-Color Fluorescence Technology

The kit is based on mature eight-color fluorescence technology, which allows for the allocation of more loci compared to traditional six-color fluorescence.



Higher Sensitivity

Using FRET fluorescent dyes, the kit offers higher sensitivity and inter-color balance, making it suitable for detecting emergency crime scene samples.



Enhanced Performance

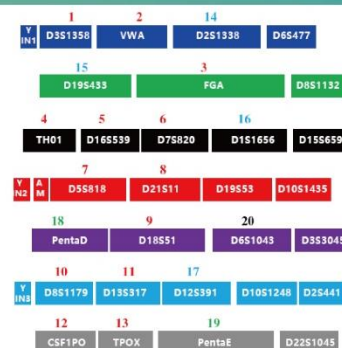
The amplification time is reduced from the traditional 90 minutes to 75 minutes, providing valuable time for the detection of genotypes in crime scene cases. The innovative Internal Positive Control (IPC) helps assess the quality of samples and the success of PCR.



Greater Applicability

The eight-color rapid kit, with amplification fragments within 370bp, is more suitable for genotyping in crime scene cases.

A33Plex (8 Colors Case Version) Loci Distribution Diagram



There are 10 Mini STR loci with fragment size less than 220bp-1,2,4,5,6,7,10,11,12,13. There are 12 fragments with size less than 220bp and 21 fragments with size less than 320bp.

<220bp

Total Probability of Discrimination Power(TDP):0.9999999769

Parentage Testing of Duos, Duos cumulative probability of exclusion(CPE):0.9999725316

Parentage Testing of Trios, cumulative probability of exclusion(CPE):0.9971221405

<320bp

Total Probability of Discrimination Power(TDP):0.9999999999999993634

Parentage Testing of Duos, Duos cumulative probability of exclusion(CPE):0.9999999998

Parentage Testing of Trios, cumulative probability of exclusion(CPE):0.99999979689

AM Amelogenin
YIN1 rs771783753
YIN2 rs199815934
YIN3 rs759551978

1-13 CODIS core loci
14-17 CODIS additional loci

18-19 Low stutter, high polymorphic loci
20 Low stutter, high polymorphic loci

Y44SE Plus STR Detection Kit (6 Colors Case Version)

Catalog No. A00109-A-100,100 Reactions/Box



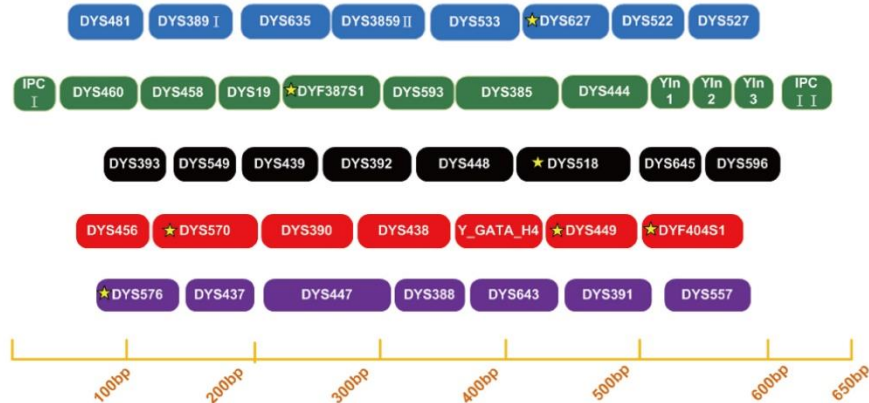
01

The kit provides information on 44 STR loci, simultaneously amplifying 32 low-mutation-rate Y-STR loci and 9 rapidly mutating Y-STR loci.

02

The kit can identify common biological samples from males, including blood, saliva, hair, semen, muscle, nails, cartilage ,etc., after extraction. It can also directly amplify FTA cards and saliva cards.

Y44SE Plus (6 Colors Case Version) Loci Distribution Diagram



Y In1 rs759551978
Y In2 rs771783753
Y In3 rs199815934
★ rapidly-mutating loci

6 Fastcase Plus STR Detection Kit

Catalog No. A00100-100, 100 Reactions/Box



01

This kit is based on mature 6-color fluorescence technology, providing high amplification and typing efficiency even for highly degraded samples.

02

Utilizing FRET fluorescent dyes, it offers higher sensitivity and inter-color balance, suitable for emergency crime scene analysis.

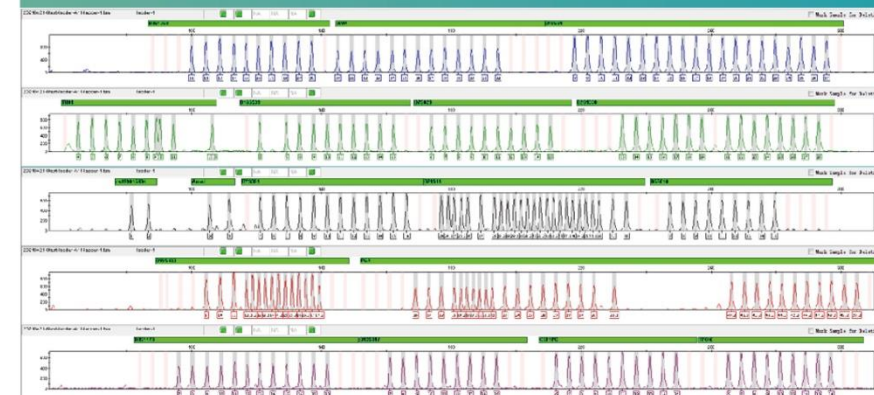
03

The amplification time has been reduced from the traditional 90 minutes to 40 minutes, saving valuable time in detecting genotypes at crime scenes.

04

The selection of loci in the six-color rapid kit includes 13 CODIS core loci, meeting requirements for the Chinese DNA database and kinship identification. The amplification fragments are all within 300bp, making it more suitable for genotyping in crime scene investigations.

Results of the 6 Fastcase Plus on the Genetic Analyzer Honor 1816 (Samples).



1. More advanced technology

Innovative lyophilized Microsphere design reduces storage requirements and enables transportation at room temperature.

3. More stable performance

Avoid repeated freeze-thaw of reagents to ensure higher stability.

5. Higher efficiency

By reducing the preparation process of the amplification system, the risk of manual errors and contamination is reduced, and work efficiency is improved.

2. Longer validity period

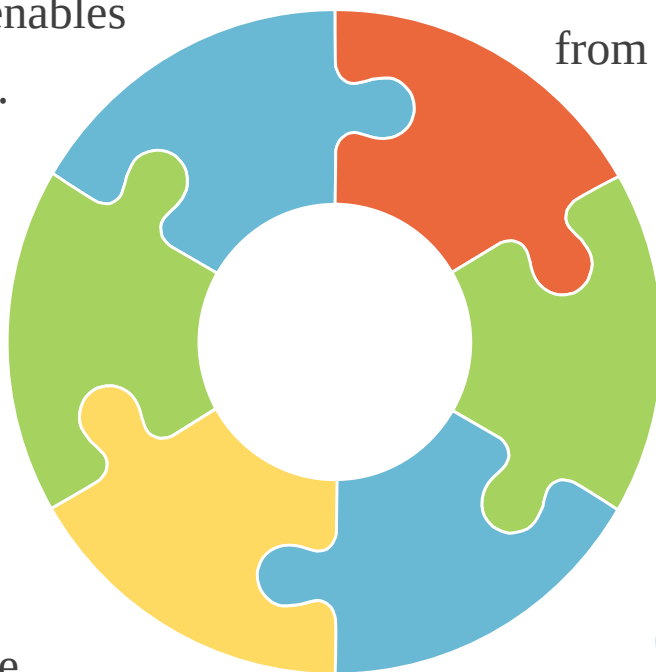
The shelf life has been extended from 2 years to 3-5 years.

4. Easier to use

Each reaction is individually packaged for easier access.

6. Better performance

Increase the detection rate of thimbleful samples by full-volume sample addition.



Honor Series Genetic Analyzer

Honor Series Genetic Analyzer

The Honor series genetic analyzer is based on the classic Sanger sequencing principle and supports up to 8-color fluorescence detection with 96 channels. It can be used for both gene sequencing and fragment analysis. The system provides an interface in both Chinese and English languages. The sequencing analysis software includes features such as base calling, sequencing data quality assessment, mutation site identification, and automatic removal of low-quality data. The fragment analysis software supports analysis of STR, SNP, AFLP, Fusion, and other types of fragments.

Customizable software interface, supporting both Chinese and English languages.

Solid-state lasers with stable power output and longer lifespan.

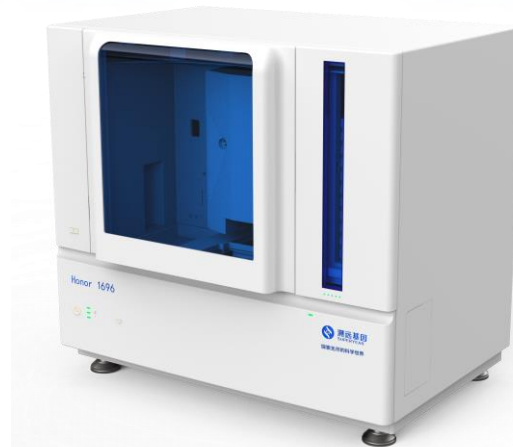
Compatible with mainstream reagent kits both domestically and internationally.

Localization substitution with a mature industrial chain covering components and consumables.

Independently developed and produced, breaking the monopoly of foreign enterprises.

Industry "gold standard" with an accuracy rate of 99.99%.

Breaking through technological barriers to build a national brand



Honor Series Genetic Analyzer

Honor series genetic analyzer (Forensic Genetic Analyzer)

Obtaining the certification of Safety and Police Electronic Products from the Ministry of Public Security and the registration certificate of Class I medical devices



Honor1616
6-color 8/16 channel



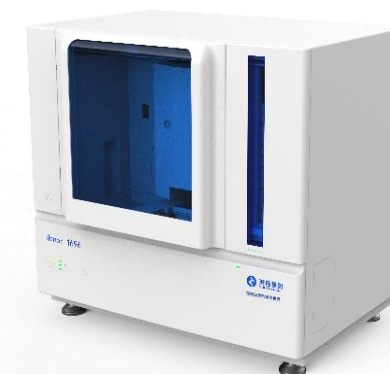
Honor1816
8-color 8/16 channel



Honor1624
6-color 24 channel



Honor1824
8-color 24 channel



Honor1696
6-color 96 channel

6-color, 8-color: It is related to the number of detection loci in a single test. There are about 40 detection loci in a 6-color test, and up to 70 detection loci in an 8-color test;

16, 24, 96 channels: It is related to the number of samples tested in one injection. 16 channels analyze 16 samples at a time, 24 channels analyze 24 samples at a time, and 96 channels analyze 96 samples at a time;

Honor Series Genetic Analyzer

No.	Model	Spec.	Configuration	Usage
1	Honor1616	6 colors 16 channels	1.Genetic Analyzer 2.Installation Reagent Kit 3.Data Acquisition Software 4. Fragment Analysis Software	Used for individual identification and paternity testing in forensic DNA laboratories. It is an open-ended testing platform that is compatible with reagent kits and consumables from mainstream manufacturers both domestically and internationally. It can be applied to gene sequencing and fragment analysis.
2	Honor1816	8 colors 16 channels		
3	Honor1624	6 colors 24 channels		
4	Honor1824	8 colors 24 channels		
5	Honor1696	6 colors 96 channels		

Honor Series Genetic Analyzer



Honor 1616 Forensic Genetic Analyzer

(Only for research purposes, not for use in in vitro diagnosis)

Product application : Sanger sequencing, multiplex fluorescent fragment analysis

The main parameters:

- ◆ Number of capillary channels : 16
- ◆ Number of fluorescent dyes: 6
- ◆ Capillary length: 36, 50cm

Honor Series Genetic Analyzer



Honor 1816 Forensic Genetic Analyzer

(Only for research purposes, not for use in in vitro diagnosis)

Product application : Sanger sequencing, multiplex fluorescent fragment analysis

The main parameters:

- ◆ Number of capillary channels : 16
- ◆ Number of fluorescent dyes: 8
- ◆ Capillary length: 36, 50cm

Honor Series Genetic Analyzer



Honor 1624 Forensic Genetic Analyzer

(Only for research purposes, not for use in in vitro diagnosis)

Product application : Sanger sequencing, multiplex fluorescent fragment analysis

The main parameters:

- ◆ Number of capillary channels : 24
- ◆ Number of fluorescent dyes: 6
- ◆ Capillary length: 36, 50cm

Honor Series Genetic Analyzer



Honor 1824 Forensic Genetic Analyzer

(Only for research purposes, not for use in in vitro diagnosis)

Product application : Sanger sequencing, multiplex fluorescent fragment analysis

The main parameters:

- ◆ Number of capillary channels : 24
- ◆ Number of fluorescent dyes: 8
- ◆ Capillary length: 36, 50cm

Honor Series Genetic Analyzer



Honor 1696 Forensic Genetic Analyzer

(Only for research purposes, not for use in in vitro diagnosis)

Product application : Sanger sequencing, multiplex fluorescent fragment analysis

The main parameters:

- ◆ Number of capillary channels : 96
- ◆ Number of fluorescent dyes: 6
- ◆ Capillary length: 36, 50cm

Honor 1616 Genetic Analyzer



➤ Technical Advantages

- All-open detection platform, compatible with reagent kits and consumables from mainstream manufacturers **both domestically and internationally** ;
- Meet the requirements of STR analysis and gene sequencing;
- Fluorescence excitation efficiency 40% higher than foreign competing products;
- Solid-state laser featuring stable power and long life;
- Advanced thermal system enabling precise temperature control;
- User-friendly Windows 10 operating system and multi-language software interface;
- Able to analyze up to 192 samples per time;
- Able to analyze up to 572 samples per day;



Honor 1616 Genetic Analyzer



➤ Technical Advantages

- Based upon Sanger Method, holding the golden standard in Sequencing industry;
- High resolution, High repeatability and outstanding sequencing quality;
- Completely open detection platform, compatible with commercial kits in the market;
- Language interface customizable, free charge of software upgrading;
- High-cost performance, saving over 50% of cost in consumables materials and reagents;
- Double certificated by NMPA (CFDA) and CE, ensuring the clinical compliance;
- Perfect technical support and after-sale services, 2 years of free warranty;



Genetic Analyzer Certificate

中华人民共和国医疗器械注册证

注册证编号：苏械注准 20202221294

注册人名称	南京溯远基因科技有限公司
注册人住所	南京市浦口区江浦街道浦滨大道 88 号 3-2B 座 11 层
生产地址	南京市浦口区江浦街道浦滨大道 88 号 3-2B 座 11 层
代理人名称	不适用
代理人住所	不适用
产品名称	基因分析仪
型号、规格	Classic 108, Classic 116
结构及组成	主机由毛细管电泳仪、毛细管阵列、高分子分离胶、嵌入式软件（版本号：V2.1）以及外部软件（版本号：V2.0）组成。
适用范围	本产品与适配试剂配合使用，用于对样本中 DNA 进行分析，检测相应的基因位点信息。
附件	产品技术要求
其他内容	
备注	

审批部门：江苏省药品监督管理局

批准日期：2020 年 12 月 01 日

有效期至：2025 年 11 月 30 日

China’s First Homemade 1st Generation Genetic Analyzer Approved by NMPA

RIOMAVIX

NOTIFICATION OF REGISTRATION

This is to certify that, according to the European Council Regulation (EU)2017/746, Riomavix S.L. performed all notification duties and responsibilities as the European Authorized Representative:

MANUFACTURER: Nanjing Superyears Gene Technology Co., Ltd.

ADDRESS: 11th Floor, Hat 3-2B, No.88 Pubin Road, Pukou District, Nanjing, Jiangsu, China.

The manufacturer has provided Riomavix S.L. with all the appropriate declaration according to the European Council Regulation (EU)2017/746 including the Declaration of Conformity confirming that its in vitro diagnostic medical device, as stipulated here below, is fulfilling the General Safety and Performance Requirements of the European Council Regulation (EU)2017/746.

IVD Devices: Genetic Analyzer

Classification: Class A

Where the manufacturer affix the CE mark to the device listed they must ensure that all the essential requirements of European Council Regulation (EU)2017/746 are met.

The notification of abovementioned device has been completed by the European Authorized Representative in Spain. The Spain Competent Authority is notified of the manufacture's device and has allocated registration. The registration number is RPS/4221/2022.

Issue date: 15/Jan/2022
Cert. No: R20220609-1

RIOMAVIX

R

CE

Riomavix S.L. (ES-A2-0000002022)
Calle de Alameda 55, 10, Madrid 28033 Spain

CE Certificate

NMPA:(Chinese) National Medical Products Administration

Independently Developed System

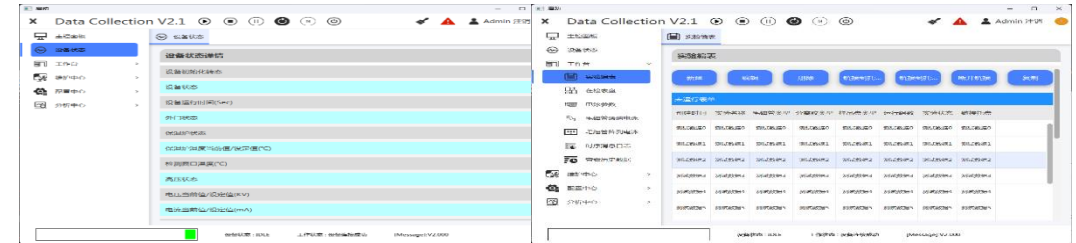
No.	Name of software	Classification	Software Description/ Function	Remark
1	Gene Test	Data Acquisition Software	The user interface is offered in both Chinese and English, and it may display the instrument's operational condition, consumable usage, and system maintenance in real time.	The installation package is included complimentary with the machine.
2	Gene Manager	Fragment Analysis Software	Fragment analysis software can analyze STR, SNP, AFLP, Fusion, Rearrangement, etc., and the number of dye channels can support the analysis of 8 - color spectrum.	
3	Gene Sequencing Analysis	Sequencing Analysis Software	The sequencing analysis software can perform functions such as basecalling, sequencing data quality assessment, mutation site search, and automatic deletion of low - quality data.	

Honor Series Genetic Analyzer-Gene Test

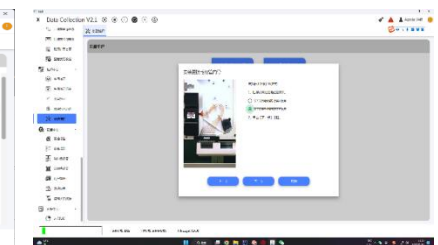
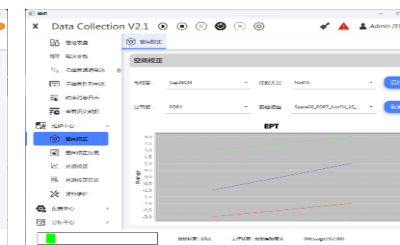
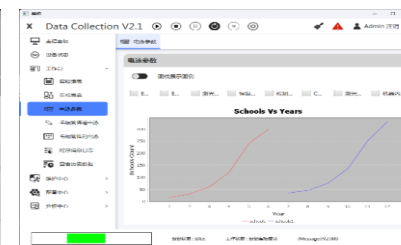
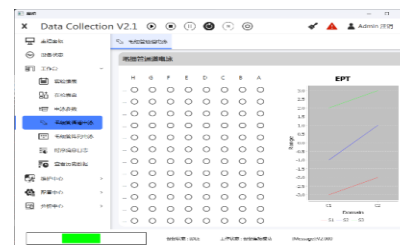
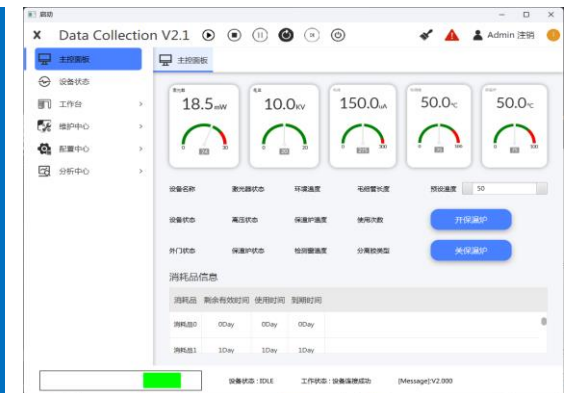
(Domestic independently developed data collection and analysis software)

✓ **Data Security - Protecting User Data** and Genetic Security, Protecting State Secrets

✓ **Chinese and English operation** - more user-friendly human-computer interaction



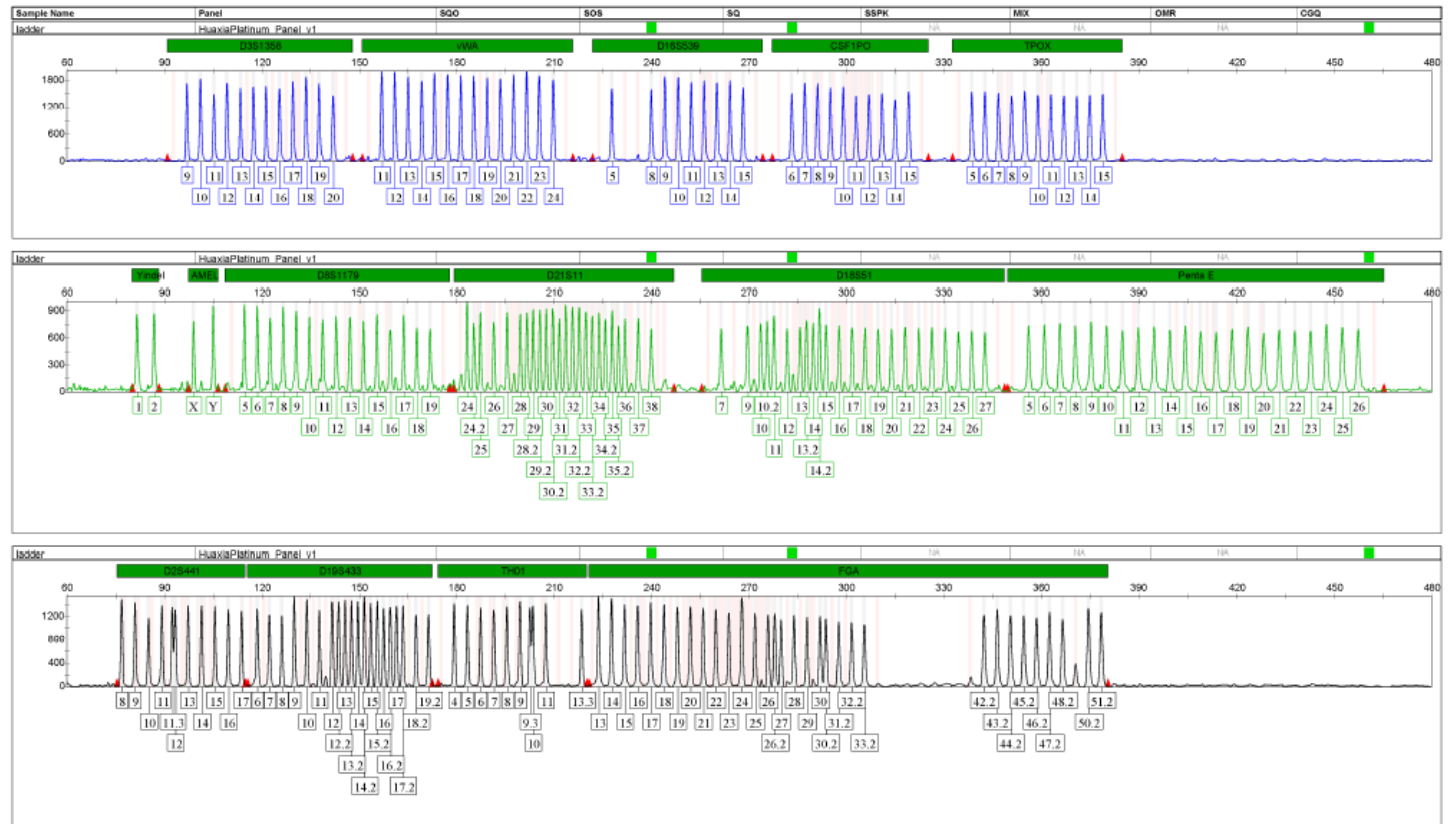
The software supports Win7 and over, Linux operating system



(Fragment analysis - Gene Manager Analysis Software)

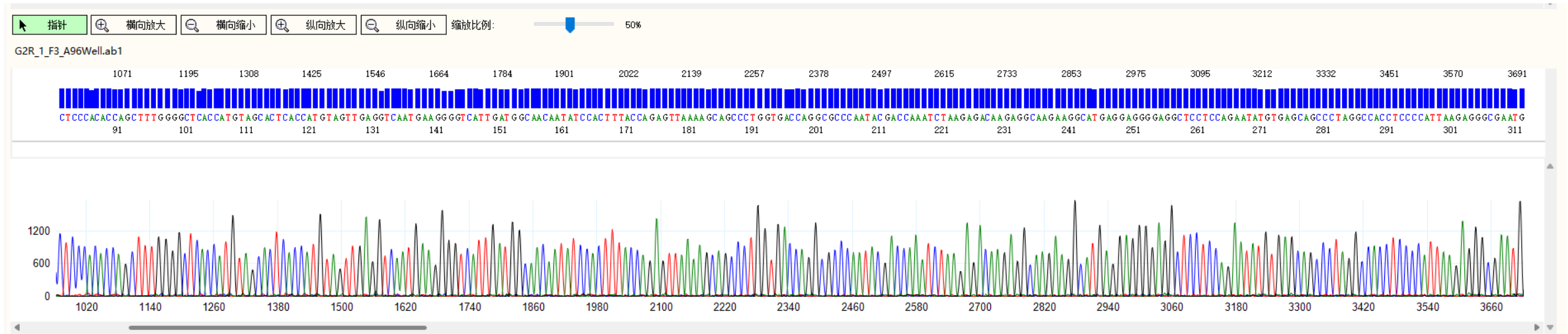
Independently developed Chinese and English data analysis system

Gene Manager Analysis Software can analyze **STR, SNP, AFLP, Fusion, Rearrangement**, etc, which can support up to eight color fluorescence analysis.



Honor Series Genetic Analyzer- Gene Sequencing Analysis

(Sanger sequencing – Gene Sequencing Analysis Software)



- The baseline accuracy of three repeated sequencing of human genomic DNA sequences can reach over 99.9%
- Mitochondrial sequencing is suitable for forensic DNA laboratories to use mitochondrial DNA genetic markers to identify maternal relationships such as mother son (daughter), maternal grandmother/grandchild (daughter), uncle nephew relationship, aunt nephew relationship, and full or half siblings of the same mother.
- Mitochondrial DNA testing can be performed on severely degraded biological samples such as hair, bone, and teeth when it is not possible to obtain nuclear genomic DNA or when the amount of nuclear genomic DNA is insufficient to complete the testing, helping to confirm individual identity information.

Honor Series Genetic Analyzer

(Product Advantages)



	Honor 1616	Product A	Product B
Boot speed	1min	About 5min	4min
Throughput	16 channels	8/24	4 channels
Maximum support for fluorescence	6/8 colors	6 colors	6 colors
Consumables and reagents	Open platform, compatible with mainstream reagents	Dedicated consumables and reagents	Dedicated consumables and reagents
Guarantee period	2 years	1 year	1 year
Instrument cost	+	++	+
Reagents and consumables cost	+	++	++

Honor Series Genetic Analyzer

(Product Advantages)

1. Economic

- Cost effective product and reagent/consumables
- 2 years of free warranty
- Free updating software



3. Precision

- “Gold Standard ”of industry
- Accuracy 99.99%



2. Compatibility

- **Fully open detecting platform**
- Compatible with mainstream reagents and consumables



4. Friendly

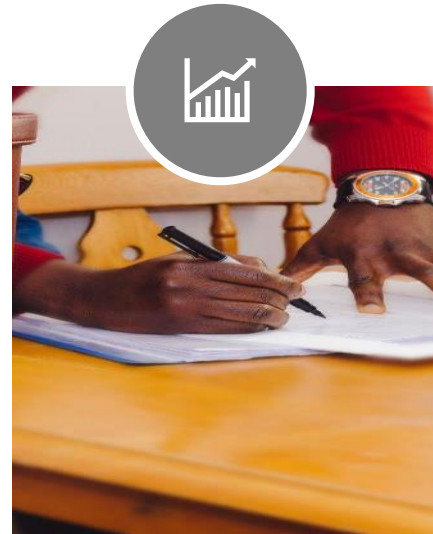
- Customizable interface
- Interaction more friendly

Value-added services

Perfect support and service

We provides comprehensive business support and technical support, including customizable online/offline technical training, remote guidance, project testing, technical consulting (primer design, LDT reagent formulation, etc.), as well as resident laboratory staff and other services, cooperation High-quality after-sales service can solve your problem of purchasing of the equipment.

Business support



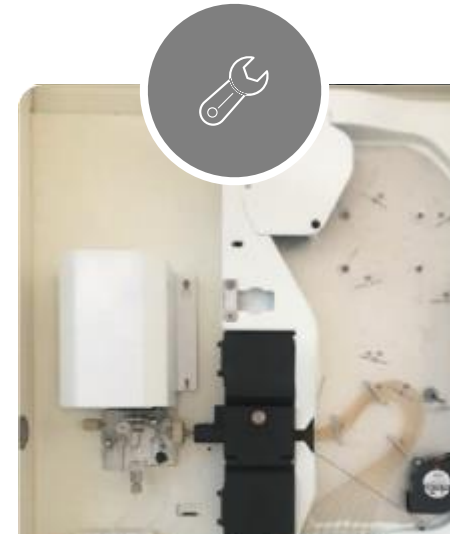
- Project Introduction
- Sales Training
- Strategic Cooperation

Technical Support



- Online/offline technical training
- Remote guidance
- Project test
- Technical consulting
- Resident experimenter

Warranty and after-sales



- Product installation and commissioning
- Hardware warranty, equipment maintenance
- Software version update
- Software version customization
- Hardware upgrade

Product Performance

Gene Sequencing Flux and Performance Index					
Operation Mode	Flux		Consumables		Performance
	Average operating time (min)	Maximum flux(sample/day)	Capillary length (cm)	Glue Type	Continuous reading length (CRL)
Sequence36_SY07	35	656	36	SY07	500 bp
Sequence50_SY07	120	192	50	SY07	850 bp
Fastseq50_SY07	60	384	50	SY07	700 bp

Product Performance

Fragment Analysis Flux and Performance Index

Operating mode	Flux		Consumable		Performance				
					General Performance		Accuracy of fragment size analysis (Standard deviation)		
	Average operation (min)	Maximum flux (Sample/day)	Capillary length (cm)	Glue type	Resolution range	Longest fragment analyzable	50-400 bp	401-640 bp	640-1200 bp
GeneScan36_SY04	50	448	36	SY04	40-640bp	640bp	<0.15	<0.3	N/A
GeneScan36_SY07	35	656	36	SY07	40-640bp	640bp	<0.15	<0.3	N/A
GeneScan50_SY07	45	512	50	SY07	40-640bp	640bp	<0.15	<0.3	N/A
GeneScan50_SY07 Long	125	176	50	SY07	40-1200bp	1200bp	<0.15	<0.3	<0.35

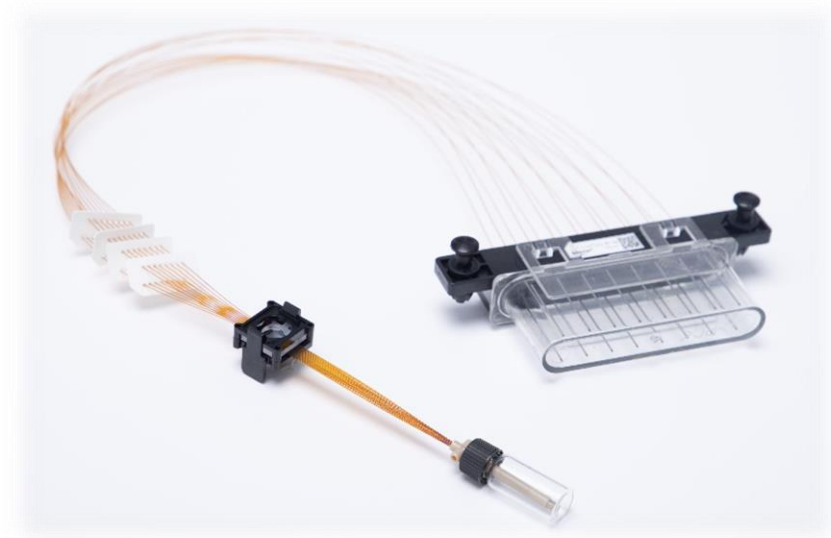
Honor 1616 Basic Parameters	
Function	Fragment analysis, Sanger Method
Channel	16
Fluorescence Dye	6
Capillary Length	36 cm / 50 cm
Sampling Method	Auto-Sampling, Compatible with 96-well plate (x2) and 8-strip tubes
Polymer-Injection Method	Auto-Polymer Injection
Laser	Solid-state semiconductor
Laser wave length	505 nm
Fluorescence Dye wave length	> 520 nm
Temp. Accuracy	$\Delta T \leq 0.2\text{ }^{\circ}\text{C}$
Resolving Power	1 bp
Detection Capability	Above 800bp
Warranty	2 year
Life Time	7 years

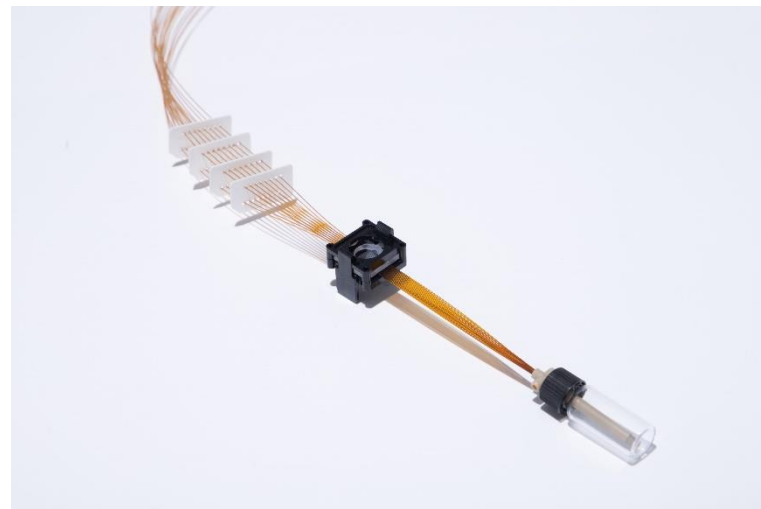
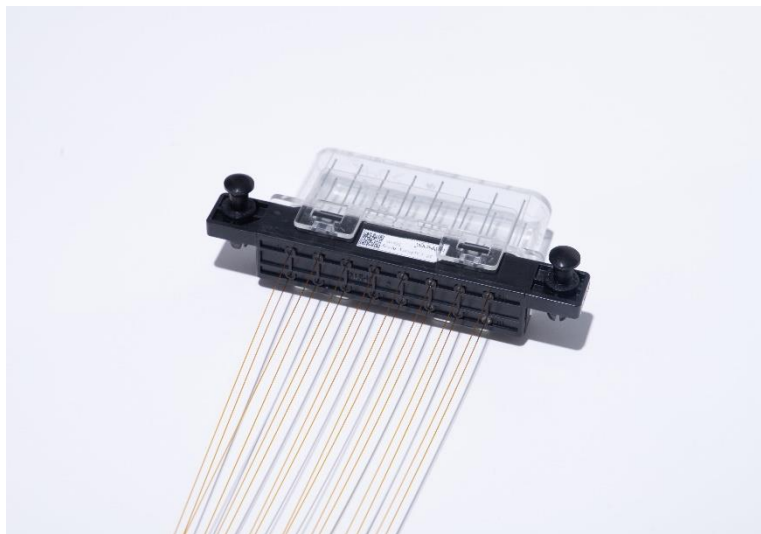
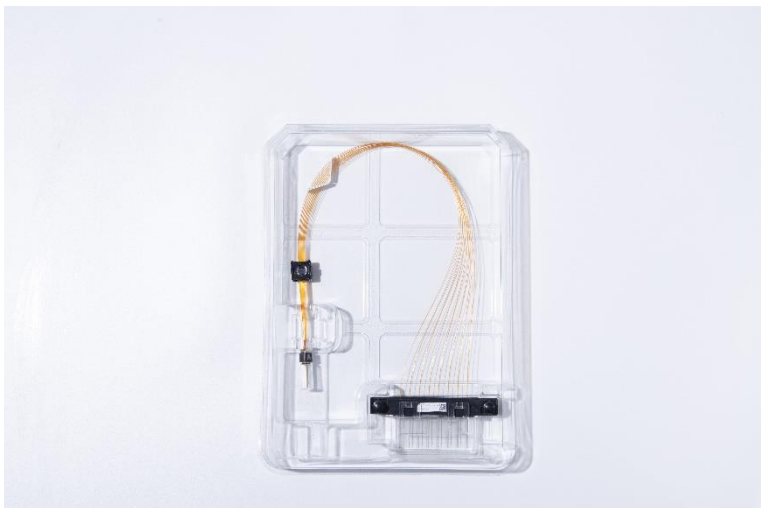
Genetic Analyzer Consumables

Capillary array: 36cm,50cm 16 capillaries

Specifications:

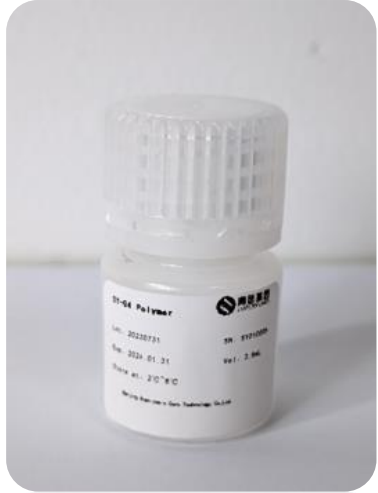
- Usage per array : 200 runs.
- Run time: 60 mins
- Capillary Length: 36 cm, 50cm
- Number of Capillaries: 16 capillaries
- Use for fragment analysis and rapid sequencing applications.
- Compatible with ABI 3100/3130 series Genetic Analyzer & DNA Sequencer Honor1616, Classic 116.



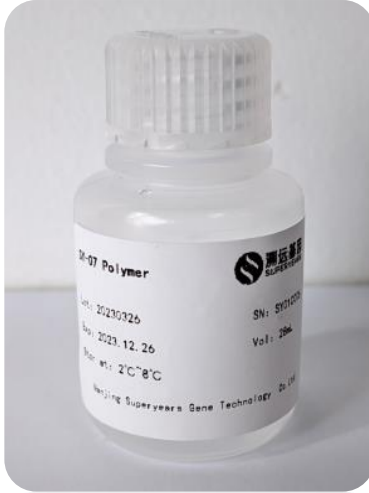


Consumables: Polymer, Bufffer, Hi-Di Formamide

Polymer 04



Polymer 07



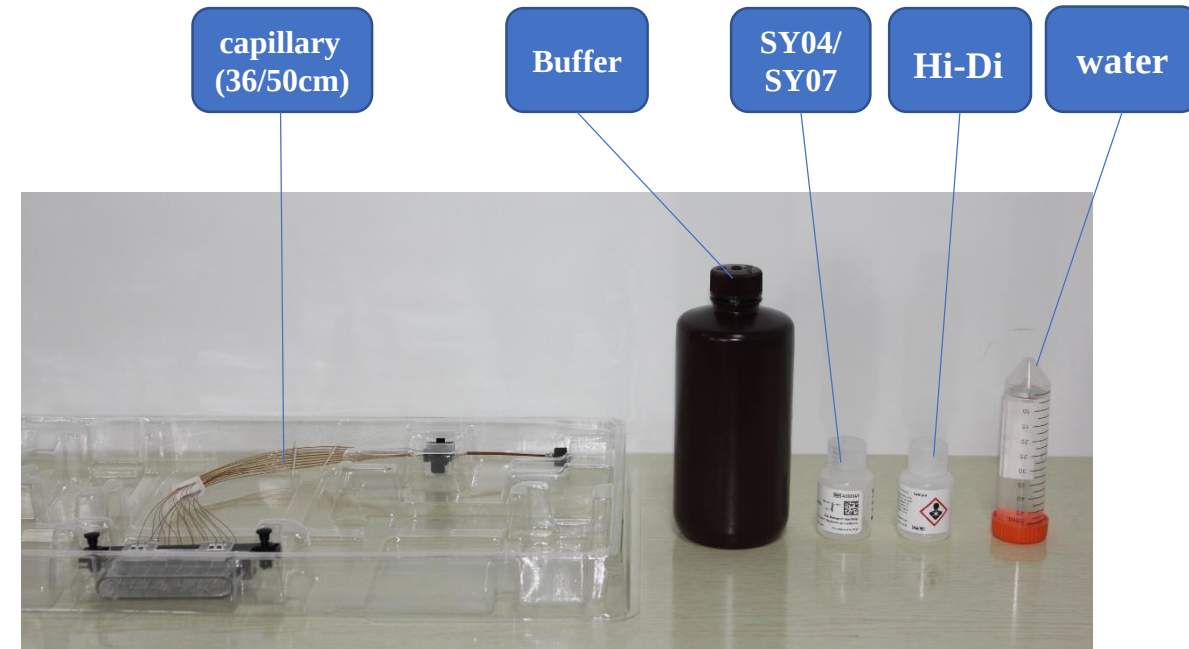
Hi-Di Formamide



- Capillary array: both ends of the used capillary must be put in the water
- Buffer: need to change buffer per week or after 30 runs
- Polymer: Store at- 2°C~8°C, cannot mixture SY04 and SY07 together
- Hi-Di Formamide: Store at-25°C ~ -15°C, keep in separate centrifuge tube to avoid freeze and melt repeatedly.

SY07/SY04 Polymer:

- Independent research and development
- Performance = Polymer Separation Glue 04/07
- Compatible with ABI 3100/3130 series Genetic Analyzer & DNA Sequencer Honor1616, Classic 116.

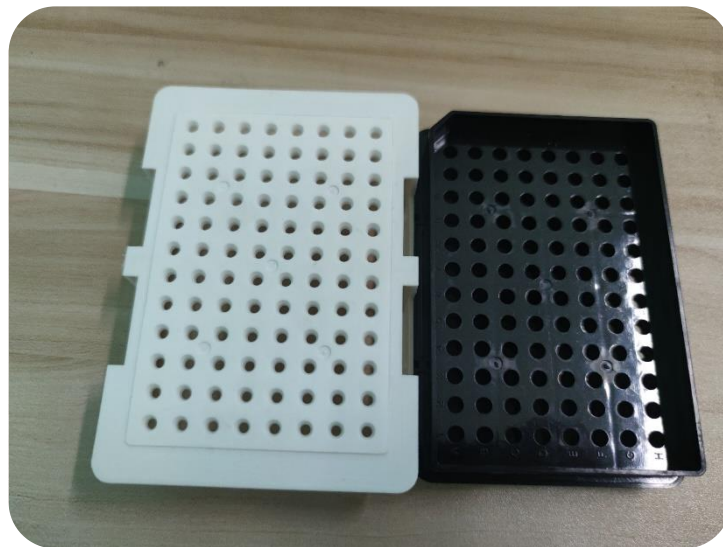


96孔板 (10Pieces/Package)



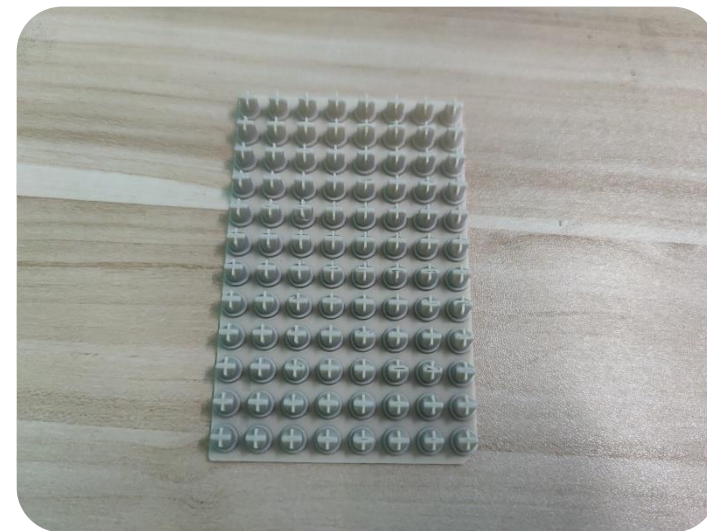
➤ 96-Well Plate

上样架 (1 Piece/Package)



➤ 96-Well Fast Plate Adapters

96孔硅胶垫 (10 Piece/Package)



➤ 96-Well Septa

➤ Compatible with Genetic Analyzer & DNA Sequencer Honor1616, Classic 116.

THANKS!

Mr. Andy Sun | Overseas Sales Director
WeChat/WhatsApp:+86 133 7605 7825