Infitek

Infitek Infitek Infitek Infitek Infitek

NUCLEIC ACID EXTRACTION AND QUALITY CONTROL

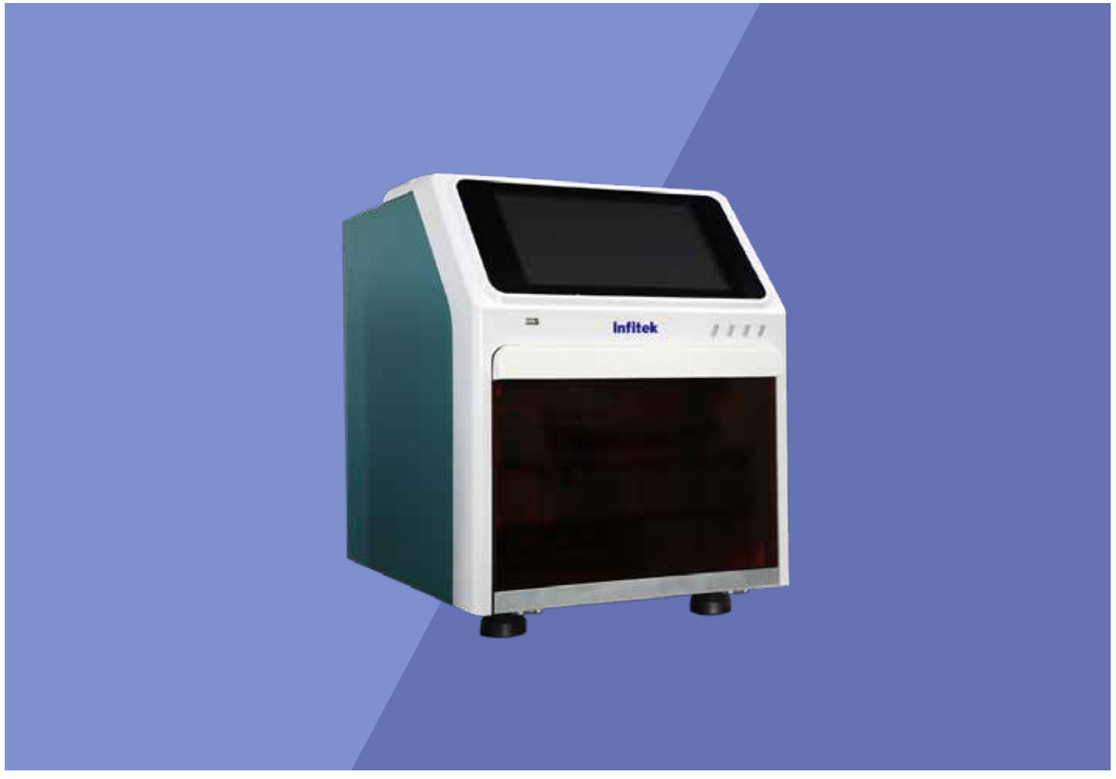
Infitek

Infitek Inc.

Address: 522W Riverside Ave Ste N, Spokane, WA 99201, USA
Email: Info@infitek.com

Infitek Co., Ltd.

TEL: +86-531-88982330
FAX: +86-531-88983691
Website: infitek.com
Email: info@infitek.com
Service: service@infitek.com
Address: Room 201A, Building 9 (Block B), No. 2679,
Hechuan Road, Minhang District, Shanghai,P.C.201100



Fluorometer

FLUOM-100

Description

This fluorometer is based on fluorescence immunoassay technology and the principle that the fluorescence intensity is proportional to the concentration at low concentrations, and to analyze samples qualitatively and quantitatively by detecting fluorescence intensity.



Application

Fluorescent Immunoassay technology has strong specificity, high sensitivity and good practicability, which is widely used to measure nucleic acids (dsDNA, Oligo, RNA), proteins (enzymes, receptors, antibodies), hormones, drugs and microorganisms and other low concentration bioactive compounds.

Features

- ◆ It works for most reagents.
- ◆ 7-inch color touch screen, easy to operate.
- ◆ Only 3s to detect the sample concentration.
- ◆ The minimum detection concentration can be 0.5pg/μL.
- ◆ Dual channels for detecting two kinds of fluorescence simultaneously.
- ◆ The response range can reach 5 orders of magnitude.
- ◆ Store up to 10000 pieces of data, which can be exported through U disk or printer







Specification

Model	FLUOM-100
Sample Capacity	1
Sample Volume	1-20μL
Tube Type	0.5ml PCR tube
Channel Number	2
Measurement Time	3s
Repeatability	＜1.5%
Calibration Method	2 or 3 point calibration
Response Range	Five orders of magnitude
Linearity	$R^2 \geq 0.995$
Excitation Wavelength	470/625 (standard)
Emission Wavelength	525/690(standard)
Concentration Range	dsDNA HS: 0.005ng/μL~120ng/μL,
	dsDNA BR: 0.2ng/μL~2000ng/μL,
	Oligo: 0.01ng/μL~240ng/μL,
	RNA: 0.2ng/μL~200ng/μL,
	MicroRNA: 0.025ng/μL~150ng/μL,
	Protein: 12.5μg/mL~5mg/mL
	Protein BR: 0.1mg/mL~20mg/mL
Sensitivity	0.5pg/μL dsDNA
Light Source	Monochrome LED
Detector	Photodiode
Display	Touch screen display
Programs Stored	10000
Data Export	U Disk
Data Format	CSV PDF
Data Interface	USB (Type A)*2, USB (Type B)*1
Power Adapter	100-240V@50-60Hz
Voltage	DC12V 2A
Power	4.5W
Net Weight	1kg

Nucleic Acid Extractor, Automatic

NAE-0132

Description

- This Automatic nucleic acid extractor adopts magnetic beads separation technique. Different from the magnetic beads purifying method of other movable liquid, the magnetic beads are transferred between deep well plate with specific reagent under this method, the magnetic rod is loaded with disposable magnetic sleeve, through the separation of magnetic rod and the magnetic sleeve, the collection, release, transfer and incubation is realized. The high quality nucleic acid can be extracted from specimen like saliva, swab, dry blood stain, complete blood, serum/plasm, animal and plan tissue.

Features

Product Advantages

- High throughput;
- Huge kit portfolio;
- Prefilled 96-well plates;
- Easy to set up and run;
- No cross contamination;
- Efficient: 3 levels of amplitude, 5 levels of frequency; With the original virus extraction kit, the extraction can be completed in 13 minutes;
- Precise: The deep hole heating strip with stronger wrapping reduces the error between the set temperature and the actual temperature;
- Intelligent: Customize Chinese or English interface according to customers' needs; Save program (e.g. Virus /DNA/ Protein) according to extraction type for easy lookup;
- Secure: HEPA H11 effectively prevents cross contamination; When the program is finished, the irradiation time of the ULTRAVIOLET disinfection lamp can be customized.

Product features

- The intelligent cycle magnetic absorption function can realize the magnetic bead residue of any system < 0.5%;
- The magnetic rod can be dismantled to facilitate repair and change, hence prolong the device use time;
- Adjustable to multiple scales and modules, and meet the requirements of different trials;
- Adopt deep vacuum heating strip of strong wrapping ability, and reduce the bias between set temperature and actual temperature;
- Mounted with ultraviolet disinfectant device and level 11 HEPA high efficiency air filter net, and reduce aerosol pollution effectively;
- Adopt Linux system and interchange easily between Chinese and English interfac;
- Able to save program according to extraction type, convenient for search.

Ptcture



Technical Parameters

Model	NAE-0132
Working voltage	AC110-240V,50-60Hz
Working temperature	10-40°C
Working humidity	Below 80%
Specimen flux	1-32, minimum specimen disposal amount: 1 specimen/time
Extracted plate position	2 positions
Applicable consumables	96 deep well plate, 6-well reagent stripe etc.
Heating position	Column 2,6,8,12 can be heated
Temperature control	10 - 99°C
Working volume	20-1000 μl
Magnetic bead recovery rate	>99.5%
Screen display	Graphic color control panel is ok for independent use, computer is not needed.
Sensation equipment	Pyroelectric technique
Operation interface	10 inch, 1024 x 600 color screen, interchangeable between Chinese and English
Net set	Ethernet can be extended to realize remote control
Ultraviolet light	Yes
Pollution control	Level 11 HEPA filter net
External dimension	(405mmx350mmx465mm) mm±10mm
Instrument weight	28kg
USB interface	Yes
Noise	<60db
Experiment storage	At most 64 accounts can be established, and each account has at most 100 program
	storage spaces
Program management	Program classified management function is built inside, and the program can be pre-set
Oscillatory mix	Adjustable with multiple modules and scales
Magnetic absorption module	One step magnetic absorption and multiple magnetic absorption
Magnetic absorption cycle time	1-10 adjustable
Package Dimension (W*D*H)(mm)	570*500*600

Nucleic Acid Extractor, Automatic

NAE-0196

Description

- The NAE-0196 magnetic particle processor is designed for automated transfer and processing of magnetic particles in micro-plate format. The patented technology of the NAE-0196 system is based on the use of magnetic rods covered with a disposable, specially designed tip comb and plates. The instrument functions without any dispensing or aspiration parts or devices. Samples and reagents, including magnetic particles, are dispensed into the plates according to the corresponding instructions. The magnetic head can be easily switched without tools, depending on your plate setup, allowing you to run large or small volumes.

Features

Product Advantages

- High throughput;
- Huge kit portfolio;
- Prefilled 96-well plates;
- Easy to set up and run;
- No cross contamination;
- Flexibility of input volume

★ Huge kit portfolio

★ No cross contamination

★ Flexibility of input volume

★ Easy to set up and run

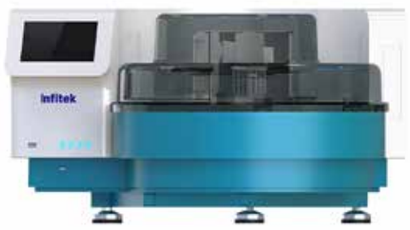
★ High throughput

★ Prefilled 96-well plates

Product features

- Contamination controllable: closed enclosure, ultraviolet sterilization device and 11-level HEPA high efficiency air filter can effectively reduce aerosol contamination.
- High throughput&Large volume capacity: The heating module and the magnetic rod can be easily replaced with 24 channels, and the program is compatible with 96 high throughput and 24 large volume capacity extraction.96 samples can be extracted within 13 minutes.
- Liquid level recognition: The amplitude can be automatically adjusted according to the liquid volume to avoid liquid overflow caused by improper parameter settings.
- Cyclic magnetic beads absorption: the magnetic beads absorption can be cycled repeatedly to make the residual amount of magnetic beads <0.5%.
- Power-off protection: while power-off, the program can continue to execute after repowering.

Ptcture





Specifications

Model	NAE-0196
Sample throughput	96
Sample volume	20 -1000 uL
Model	NAE-0196
Temperature control	10 -99℃
Magnetic beads recovery rate	>99.5%
Oscillating mixing	Multi-mode and multi-speed adjustable, the amplitude can be automatically adjusted according to the liquid volume
Power	100—240 Vac, 50/60 Hz
Data storage	Store>500 groups of programs
Operation interface	7" 870 xl 550 Color screen, free switch between Chinese and English Interface
Power-off protection	Yes
Power control	Servo motor
Oscillating technology	Super Vibrate
Computer interface	RS232
Operating temperature range	5-40℃
Operating humidity range	Below 80%
Weight	45kg
Size	685mm x 840mm x420mm
UV lamp	Yes
Contamination control	Level 11 HEPA
Package Dimension (W*D*H)(mm)	880*760*600mm
G.W.(kg)	74

Nucleic Acid Extractor, Automatic

NAE-32P

Features

- Using high-precision screw
- Adopt stepping motor brakeway scheme
- Simple and generous appearance
- Use UV light for disinfection



Description

This product is an automated instrument that can provide safe and efficient nucleic acid extraction and purification for biological laboratories and clinical medicine departments. This product can extract nucleic acids from various samples such as animal and plant tissues， viruses， fungi，bacteria，plasmids，whole blood or cultured cells. It is equipped with multiple safety functions such as door opening protection， UV disinfection, and UV protection from the observation window to ensure the experimental results are safer and more reliable.



- Android operating system，matching 10.1-inch capacitive touch screen，simple and smooth operation
- Simple and generous appearance，bright and spacious observation window，working conditions are clearly visible

Features

- Adopt stepping motor brakeway scheme to ensure motion accuracy and operation safety
- Use UV light for disinfection to reduce cross-infection and aerosol contamination of samples
- Real-time display of program progress and remaining time
- Scalable Ethernet remote control
- Automatic power-off protection, prompts to continue unfinished program operation after power is restored, to ensure safe operation of the entire extraction/purification process
- Equipped with door opening protection function to prevent misoperation
- Support U disk import/export program, can connect keyboard and mouse
- Fast extraction 10-50 minutes/time (depending on different reagents).



- Support U disk import/export program, can connect keyboard and mouse



- Using high-precision screw to realize the transmission structure, the extraction efficiency is fast， and the nucleic acid yield is high

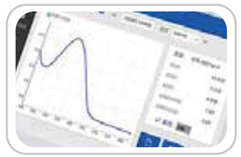
Specifications

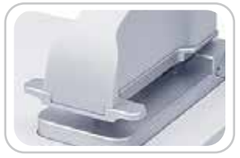
Model	NAE-32P
Throughput	1-32
Process Volume	20-1000 μL
Consumable	96 deep well Plate+Magnetic rod stip
Collection Efficiency	≥98%
Stability	CV≤3%
Operation Temp. Range	10℃-40℃
Humidity Range	10%—90%
Heating Temp.Range	Normal temp.+5℃~125℃
Oscillatory mixed mode	Adjustable
Pollution control	UV light
Lighting	Yes
Safety protection	Auto data protection
Reagent type	Magnetic bead reagent
Display	10.1 touch screen，Android operation system
Communication	LAN，USB，Wi-Fi
Dimension(L*W*H)	430×390×505
Weight	30Kg
Electricity	AC100~240V 50Hz/60Hz 450W
Package Dimension (W*D*H) (mm)	590*550*720
G.W.(kg)	52

Microvolume UV/VIS (Nano) Spectrophotometer

SP-YUV100







It has a 7-inch capacitive touch screen, multi-touch, and humanized design;No computer is required for measurement and data storage and the sample detection and data storage can be completed by a single machine, which is very convenient to use.

Friendly Android operation system, 7-inch touched screen.

Cuvette slot available for bacteria/microbe concentration test.

Measurement without dilution, test result display and read easily.

Long life's Xenon flash lamp.

Reliable and quick data USB output for analysis.

No computer is required for measurement and data storage.

Image and excel table can be output.

External printer is optional.

Only 0.5～2μL sample volume requested, which can be recycled after test, ideal for precious samples.



Sample pedestal



Drop sample

Specification

Model		SP-YUV100
Sample volume		0.5μL~2μL
Path Length		0.05mm, 0.2mm , 1mm
Light source/Life		Xenon Lamp/flicker times>10^9
Detector type		2048 CMOS array
Wavelength		180~910nm
Wavelength accuracy		±1 nm
Wavelength precision		±0.2nm
Spectral resolution		≤1.5nm（FWHM@Hg 253.7nm）
Absorbance precision		0.002Abs
Absorbance accuracy		±1%（7.332Abs at 260nm）
Absorbance range(equaled 10mm)		0.04~300A; Cuvette (OD600):0~4A
Nucleic acid range		dsDNA:2~15000ng/μL
		ssDNA:1.32~9900ng/μL
		RNA:1.6~12000ng/μL
Protein Detection Range		A280: 0.04~750mg/mL
		BSA: 0.06~1119mg/mL
		IgG: 0.03~547mg/mL
		Lysozyme: 0.015~284mg/mL
Detection time		<6S
OD600	Abs range	0~4.000 Abs
	Abs stability	[0,3）≤0.5%, [3,4）≤1.5%
	Abs repeatability	[0,3）≤0.5%, [3,4）≤1.5%
	Abs accuracy	[0,2）≤0.005A,[2,3）≤1%,[3,4）≤2%
Sample pedestal		304 stainless steel and Quartz fiber
Voltage		DC12V 4A
Power of work/Stand by		48W/ ＜6.5W
Dimension		270×210×196 mm（W×D×H）
Weight		3.4 kg

Ultra-Micro Spectrophotometer

SP-601-F







Description

The SP-601-F is a full-wavelength micro-spectrophotometer. It can quickly and accurately quantify nucleic acids, proteins, and cell suspensions. It is also equipped with a cuvette mode to measure the concentration of bacterial cultures. The entire workflow is fast, simple, and intuitive.
This device can be used in a wide range of fields, such as clinical diagnostics, blood analysis, forensic identification, environmental microbiology testing, food safety, and molecular biology research.

Features

TFT

7-inch capacitive TFT screen, multi-touch, intuitive interface, and simple operation.

It has an automatic detection function, which significantly improves detection efficiency.

The sample volume required for testing is only 0.5 to 2 µL, and it can be recovered after measurement.

Driven by a high-precision motor, the optical path accuracy reaches 0.001 mm, ensuring high repeatability in absorbance detection.

Specification

Model	SP-601-F
Detection Function	Nucleic Acid / Fluorescence / OD600
Volume	0.5–2 µL
Dimensions (L*W*H)	318*210*188 mm
Weight	4.85 kg
Optical System	
Optical Path	0.03 mm, 0.05 mm, 0.1 mm, 0.2 mm, 1 mm
Light Source	Xenon flash lamp/number of flashes $>10^9$
Detector Type	2048 pixel linear array CCD
Wavelength Range	190–850 nm
Wavelength Accuracy	±1 nm
Performance Parameters	
Spectral Resolution	≤ 3 nm (FWHM @ Hg 253.7 nm)
Absorbance Precision	0.002Abs (1 mm optical path)
Absorbance Accuracy	±1% (7.332Abs absorbance @ 260nm)
Absorbance Range	0.04-750 (at 260 nm wavelength, equivalent to 10 mm optical path)
Concentration Range	2 ng/µL dsDNA-37500 ng/µL dsDNA
Contaminant Detection	EDTA, GTC, Phenol, Protein, Guanidine salts, RNA
Detection Time	< 6 s
OD600	
Light Source	Single color LED
Absorbance Range	0-4.000 Abs
Repeatability	(0, 3) ≤ 0.5%, (3, 4) ≤ 1 .5%
Absorbance Accuracy	(0, 2) ≤ 0.005A, (2, 3) ≤ 1%, (3, 4) ≤ 2%
Heating Temperature	37 °C ± 0.5 °C
Stirring Speed	12 adjustable speeds, 100-1200 rpm
Fluorescence Detection	
Sample Volume	≥ 50 µL (0.5 mL PCR tube)
Detection Time	4 s
Detection Channels	2 channels
Repeatability	< 1.5%
Stability	< 1.5%
Linearity	$R^2 \geq 0.995$
Light Source	Single color LED
Excitation Wavelength	470 nm, 624 nm
Emission Wavelength	525 nm, 692 nm
Other Performance	
Printing/Interface	Built-in thermal printer, USB 2.0 × 2
Data Export Formats	xls, csv, txt, jpg, png
Experimental Data	>10,000
Power Supply	DC 12V 5A, 60W