

Catalogue

2017





Company Profile

Founded in June 2011, Hangzhou LifeReal Biotechnology Ltd. focuses on the R&D and production for the life science and clinical diagnostic products with its base on the side of the beautiful Xixi Wet land in Hangzhou, China.

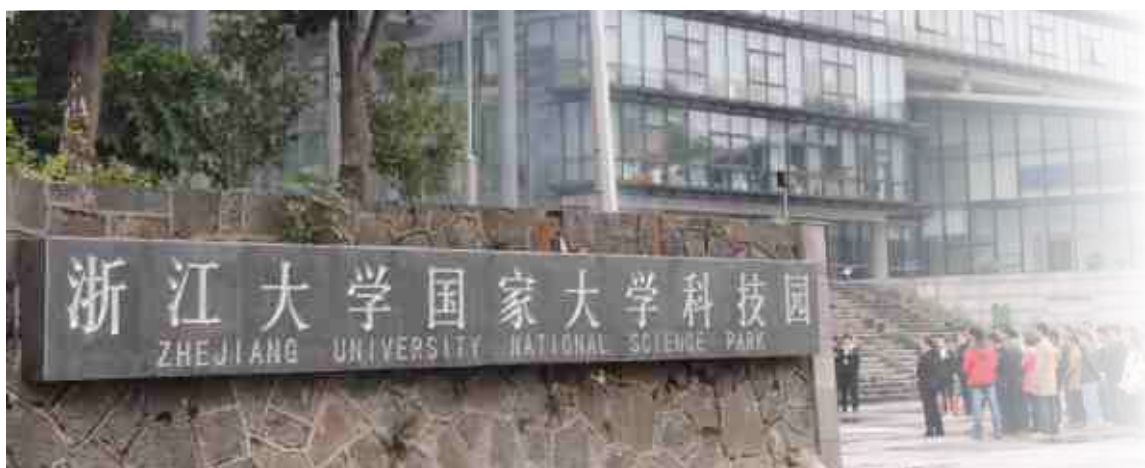
Our aim is to service to the customers, with our advanced idea and designing for our most reliable products, into the field of the clinical diagnostic and life sciences. Customer oriented, Innovation and high quality control are the key value of the company.

Based on the resources of China Top3 - Zhejiang University, LifeReal has successfully developed a several of high-tech products with the patented technology. We have a full team of engineers to provide the original designing service, including electronic design, structure design, software design, etc. The company has been achieved the governmental financial supported "Blue Plan enterprises" in 2012.

LifeReal has settled its production line with the occupation of 2000sqM and strictly followed up the **ISO 9001** quality management system. The company will get **ISO13485** certificate in 2017 soon.

Viewing to the worldwide cooperation, LifeReal has built up the business channels into overseas countries, such as US, Japan, Germany, UK, etc. Mostly of our products are designed with **RoHS** complied and **CE** marked. We welcome OEM/ODM cooperation based on the customer requirements. Your comments will be our greatest wealth.

LifeReal Seek for the Reality of life!



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GeneReady

Biological Sample Preparation System

GeneReady homogenizer is an open, fast efficient high-throughput sample preparation system. It can deal with max. 24 samples per run. By using with our optimized reagents&kits, the GeneReady system can dispose various sources of samples, including soil, plant tissue, animal organs, bacteria, yeast, fungus, spore, paleontology specimen, etc. GeneReady is your best laboratory assistant for multiple research activities, such as pharmaceutical, biochemistry, environmentology, geology and so on.



GeneReady Series include three models for your choice:

- ★ Standard: homogenizer
- ★ UltraCool: heating&cooling homogenizer
- ★ Ultimate: heating&cooling homogenizer with centrifuging function

Description

With its patented cooling function, the system can break the cytoderm rapidly, especially for the difficult and sensitive samples, such as RNA or protein, so to hold on the longer processing time at lower temperature to release the genomic DNA, RNA or proteins easily. It adopts the advanced microprocessing technology to ensure the exact temperature control.

The Ultimate model, with the centrifuging function, enables the machine to centrifuge the sample after the first step of sample preparation so to get the target easily for you next step of experiments of the extraction and purification.

With the 5.7" colorful touch screen display, it is intuitive and convenient to set the protocols and run up to 10 programs directly from the shortcut of the interface.

By using the enhanced locks, it is easy to change and fix the rotators for different kinds of sample tubes.

GeneReady is an open platform for various customized reagents. However the optimized GeneReady kits provide the ready to use solution for your experiments.

GeneReady

Biological Sample Preparation System

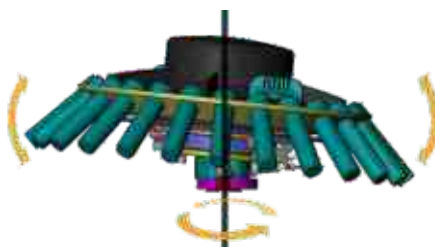
Easy and fast solution for your sample preparation:



GeneReady grinding principle:

- Physical method
- * Chemical method
- * Biological method

By three-dimensional high-speed motion, grinding beads shear and grate each other, and using formula reagents to lyse cell wall/membrane as well as to protect the nucleic acid protein, thus to achieve the extraction of target DNA, RNA or protein.

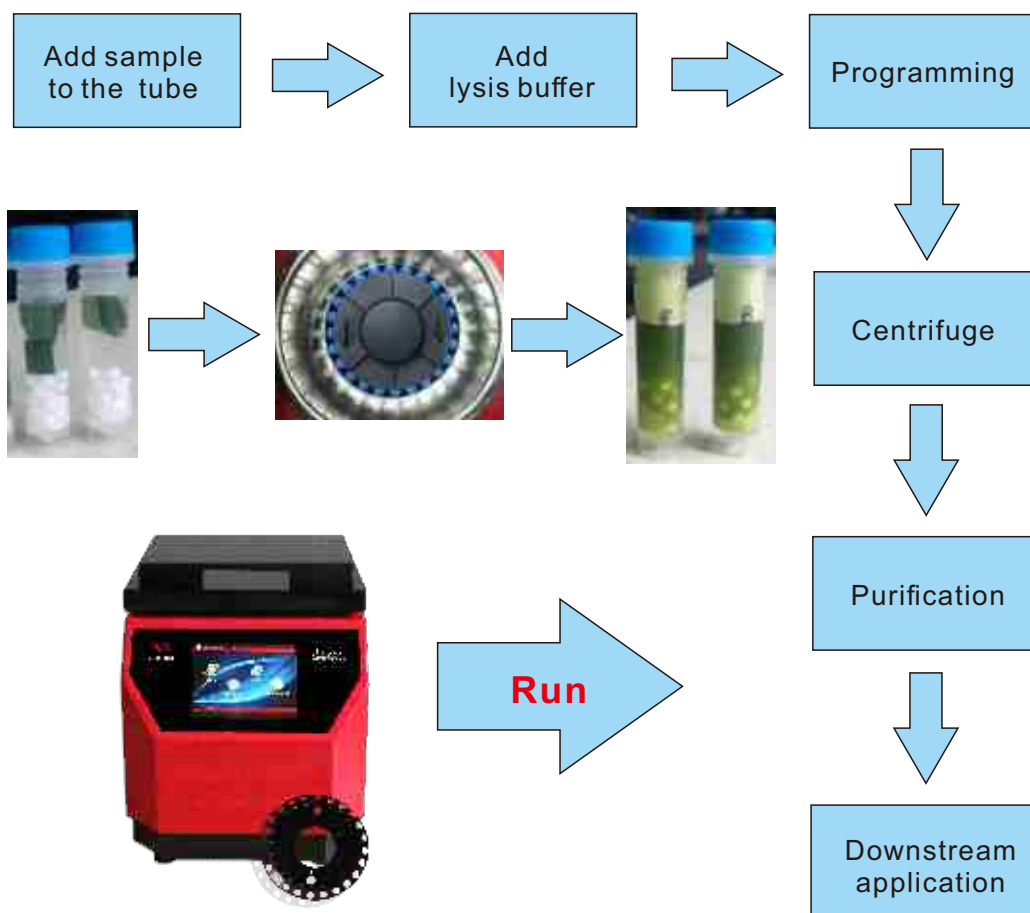


Patented Technologies

- * Long time sample processing.
- * Cooling function
- * Sample processing with centrifugation

GeneReady

Biological Sample Preparation System

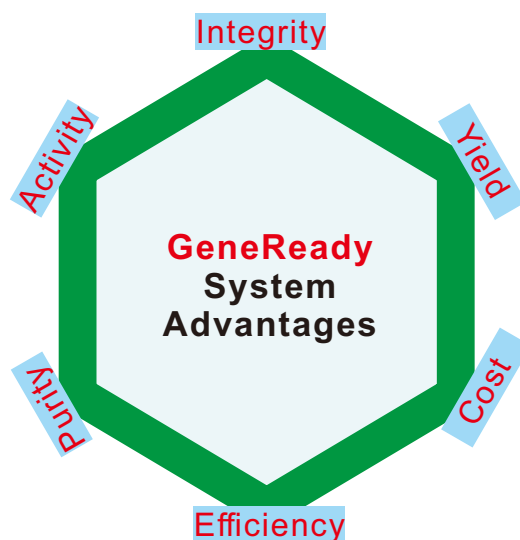


Applications

- Nucleic acid separation and purification
- ★ Sample lysis and preparation
- ★ Proteins Sample lysis and preparation

Fields

- ★ Cancer
- ★ Agriculture
- ★ Forensic
- ★ Infectious diseases
- ★ Genomics
- ★ Metabolomics
- ★ Food Science
- ★ Plant Pathology
- ★ Proteomics
- ★ Soil and Environmental Sciences
- ★ Microbial environmental genomics



GeneReady

Biological Sample Preparation System

Features

- ★ Timesaving
- ★ Laborsaving
- ★ High speed
- ★ High-throughput
- ★ High repeatability
- ★ Low noise $\leq 58\text{db}$: brushless frequency conversion motor used
- ★ Safe, No contamination, Maintenance free
 - No need hazardous material such as liquid nitrogen
 - No need consumable parts
 - Stainless steel chamber, easy to clean
 - Complete isolation among samples to eliminate contamination

Ultimate- Max.6000rpm

- ★ Innovative axis: shaking & centrifuging
- ★ Centrifuge soon after homogenization to get the supernatant directly
- ★ A self-governed low-speed refrigerating centrifuge for specific samples



Sustaining up to 30min

- ★ Longer working time guarantees the sample yield for hard samples

Low to 2m/s

- ★ Especially good for genome preparation



Easily fix the samples by a gently lock



Intuitive program



5.7' big colorful touch screen

GeneReady

Biological Sample Preparation System

Specifications

Name	GeneReady Ultimate	GeneReady Ultracool	GeneReady Standard
Sample capacity	24×2.0ml		
Vibration speed	2.0-6.5m/s, 0.05m/s change step		
Cooling function	yes	yes	-
Temp. control range	4~35	4~35	-
Centrifuging function	yes	-	-
Centrifuging speed	Max.6,000rpm	-	-
Program number	99		
Cycler number	Max. 99		
Single max. time	99m59s		
Noise level	H58dB		
Display screen	5.7' touch screen		
Open lid operation protection	Yes		
Dimension	510×370×360mm LÜWÜH	510×370×360mm LÜWÜH	380×280×330mm LÜWÜH
Power supply	100V~120V/200V~240V 50/60Hz		
Weight	32kg	30kg	18kg



GeneReady

Kits optimized for your experiments



Kits include beads, tubes & lysis buffer

Features

- ★ Strong zirconia crystal beads
- ★ DNase & RNase Free self-sealing tubes
- ★ No hazard formula, such as Phenol chloroform
- ★ DNA/RNA protective reagents included



Performance of kits

- ★ Storage stability
- ★ Repeatability
- ★ RNA Extraction
- ★ Long fragment
- ★ Tissue DNA extraction
- ★ Bacteria DNA extraction
- ★ Plant DNA extraction
- ★ Bone DNA extraction
- ★ Low volume sample extraction

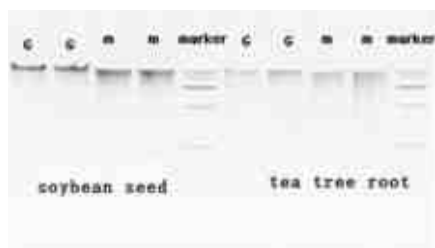


GeneReady

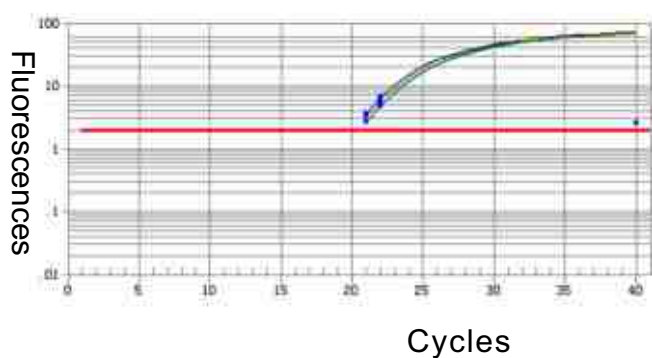
Kits optimized for your experiments

Examples

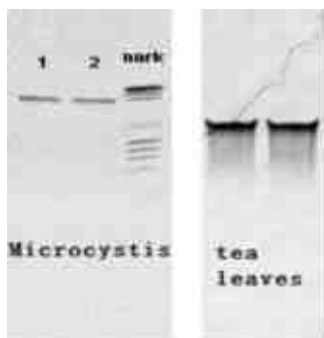
Plant PII DNA



Tissue P III DNA - old bone

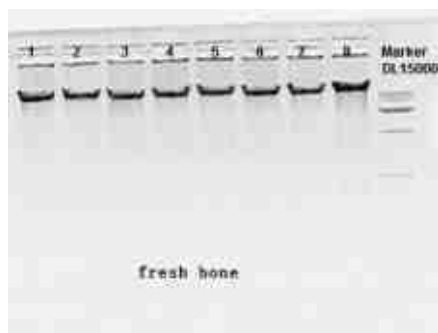


Plant PIII DNA



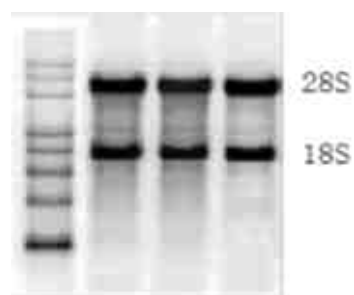
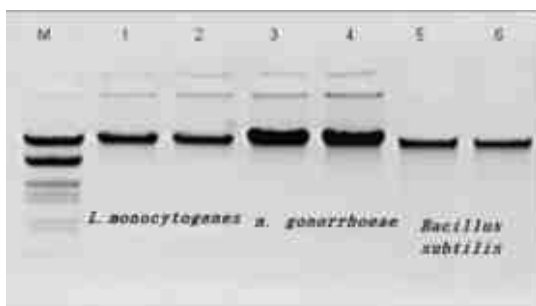
Sample	Ratio	Concentration, ng/ul
Microcystis	1.91	29.35
	1.9	28.4
Tea leaves	1.865	55.5
	1.74	58.8

Tissue PII DNA



Sample	Ratio	Concentration, ng/ul
Fresh bone	1.76	437.5
	1.775	416.5

Tissue (RNA) , mouse liver



GeneReady

Kits optimized for your experiments



Specifications

Kits name	Applications
GeneReady Plant P I	Leaves, stems, buds, etc.
GeneReady Plant P II	Roots, stems, woody plants phloem, tubers, root tips, seed germ, large fruiting fungi, etc.
GeneReady Plant P III	Special samples such as polysaccharide polyphenols, algae, pine needles, tea, heather, etc.
GeneReady Tissue P I	Common animal tissue, cell culture, etc.
GeneReady Tissue P II	Hair, cartilage, skin, fresh bones, etc.
GeneReady Tissue P III	Old bone
GeneReady Microbe P I	Common bacteria such as gram-negative bacteria
GeneReady Microbe P II	Yeast, Gram-positive bacteria, microbial, etc.
GeneReady Plant RNA	Plants, fungi mycelium and fruiting body
GeneReady Tissue RNA	Ordinary animal tissues, cultured cells, blood
GeneReady Microbe RNA	Bacteria, microbial, etc.

GeneReady H-Max

High-throughput horizontal tissue grinder

H-Max is a multifunctional necessary assistant for laboratory sample preparation. It can grind and homogenize many kinds of samples no matter hard, moderate hardness or soft, so that the processed sample can meet with the coming experimental use for the laboratory. By using different kinds of tanks, GeneReady H-Max can deal with the dry grinding, wet grinding or frozen grinding, including cracking the cell wall or extracting the DNA/RNA. It is widely used in the field of biomedicine, agriculture, chemicals, RoHS, toys, environmental test, QC, education, etc.



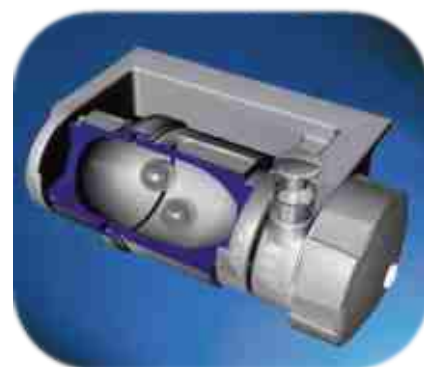
Description

- ★ High efficient (frozen) grinding for the plant and animal tissue
- ★ Breaking and cracking of bacterial and yeast cell wall
- ★ DNA & RNA extraction of high-throughput plant and animal tissue
- ★ Sample well homogenized
- ★ Grinding samples for food, feed, Chinese herbal medicine, etc.
- ★ Mineral and mineral samples grinding and homogenizing
- ★ Sample preparation for physical and chemical analysis
- ★ Preparation of Three - Generation Sequencing Amplified Samples
- ★ Function: Crushing, mixing, homogenization, cell disruption and frozen grinding
- ★ Application field: Agriculture, Biology, Chemistry, Plastics, Building Materials, Electronics, Environment, Food, Glass, Ceramics, Medicine, Minerals and Metallurgy, etc.
- ★ Sample hardness: hard, moderate hardness, soft, brittle, elastic, including fibers, etc.

Features

Accurate and fast. Advanced invented horizontal beads reciprocating grinding.

One pair of high speed amplitude of vibration arms guarantee the instrument to provide enough force to grind the samples in the tubes by collision with the beads in the tube. It can grind, homogenize, smash or mix the samples within seconds, and then the processed sample can reach to 5 μ m.



GeneReady H-Max

High-throughput horizontal tissue grinder

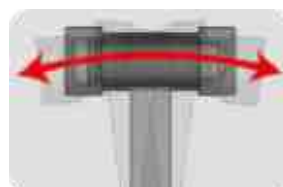
Safe and convenient. The most economic grinding method to deal with the frozen samples.

By using the specific tank, the GeneReady H-Max can deal with the frozen samples or heat sensitive samples. The special designed rolling cap tank can be immersed in liquid nitrogen and keep the good sealing to the sample so to resist the water from the air into the sample to become the condensation.



Unique technology

- ★ Most effective reciprocating horizontal shaking grinding principle to guarantee the effective crashing and mixing the samples
- ★ Fast and easy loading the samples
- ★ Safe locker
- ★ Automatic locating the tanks



Wide range of application

GeneReady H-Max can process wide range of samples even though the materials with fibers and it can process the hard samples such as root or seed of plants, tissue, bone or fur of animals, plastics, minerals, soils, bacteria and yeast. The grinded samples are mostly used for the extraction of DNA/RNA, proteins, or for trace analysis, and other kinds of coming experiments requiring for nanometers or fine refined samples.



Working procedure: Easy and Fast

Add sample ---- Add grinding beads ---- Add lysis buffer (as required) ---- Seal the lid and locate into the tank/adaptor ---- Assemble the tank/adaptor into the instrument ---- Strength and lock ---- Close the protection cover ---- Setting the programs ---- Press to run (typically 2mins) ---- Sample for use



GeneReady H-Max

High-throughput horizontal tissue grinder

Flexible accessories for different kinds of samples



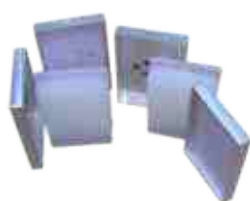
2*25ml/50ml Hard stainless steel grinding tube tank



2*28*2.0ml tube adapter



2*12*5.0ml tube tank



2*96well plates adapter



2*4*5ml stainless steel tube tank

Technical Specification

Name	GeneReady H-Max
Working principle	Impact force, friction force
Moving method	Horizontal reciprocating oscillating ball grinding
Max. shaking speed	2000rpm
Max. sample size	H 8mm
Grinded sample	~5µm
Typical time	2minutes
Grinding model	Dry grinding, wet grinding, frozen grinding
Frozen grinding	Adapters and grinding tanks can be immersed in liquid nitrogen, the temperature of the sample can be as low as to -192
Grinding plates	2
Sample capacity	2*96well plates, 2*28*2.0ml EP tube, 2*12*5.0ml tube, 2*4*5ml stainless steel tube, 2*25ml Hard stainless steel grinding tube, 2*50ml Hard stainless steel grinding tube
Display	Digital display
Shaking frequency	100-1800 reciprocation/min, continuous and adjustable
Grinding timing	1s~99M59s
Pause timing	0-99s
Programming function	grinding time, pause time and speed
Driving	brushless motor
Power	100V-120V/220V-240V, 50/60Hz, 200W
Size	320*200*460mm
Net WT	26Kg

NanoReady

Micro UV-Vis Spectrophotometer

NanoReady is a conventional laboratory equipment, not only widely used in molecular biological experiments, such as DNA, RNA, protein detection, but also used in absorbance detection for the general substance analysis. It includes three common detections to the nucleic acids, nucleic acid markers and proteins.

The variable pathlength of NanoReady realizes both the minimum sample volume detection as low as 0.5 μ L, suitable for precious samples, and the detection to the high concentration samples without dilution at all.

Including the liquid drop, it builds in the standard cuvette detection module for more use.



Features

High sensitivity

2028 linear CCD detection unit, new generation product, has higher sensitivity, accuracy as well as repeatability.



Stability for the long life

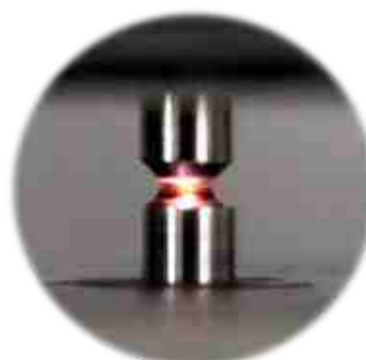
Long-life xenon flash lamp of Hamamatsu ensures stability of detection and the long life of instrument. The lifting detection base with sliding bearing structure has high precision, not easy to damage.

Variable pathlength

The mini. detection pathlength is 0.05mm; samples with high concentration can be detected directly without dilution.

The max. ~ 15000 ng/ μ L dsDNA, the smallest detection volume of precious samples is 0.5 μ L.

The user-defined settings are allowed if the pathlength is more than 1mm. The instrument has flexible and convenient detection function.



Ultra wide wavelength range

With continuous wavelength range as **185-910nm**, the instrument can detect various samples through selecting any band. It adapts to a variety of detection requirements with wide range of near infrared wavelength.

NanoReady

Micro UV-Vis Spectrophotometer

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The stepper motor combined unique double track technology (DPTL), allows the precision of optical pathlength as 0.001mm, thus to achieve highly repeatability of absorbance detection.

/ ĩ öšÖŠ detection mode

The cuvette detection mode comes with magnetic stirring function. User can set the heating function and stirring speed for dynamic analysis detection. And the user can define different pathlength, such as 1mm, 2mm, 5mm, 10mm. (for Model: FC-1100 only)



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sample adding

Auxiliary holder for adding liquid can ensure the accuracy of adding liquid during micro measurement. It is also suitable for other mainstream brands of microUV-Vis Spectrophotometer in the market to achieve a stable and simple process of adding liquid.



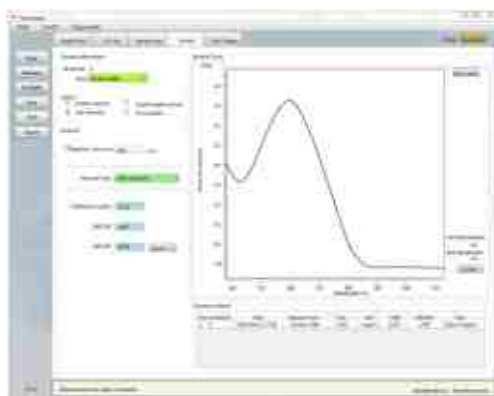
Üē ś ĩfriendly software

The simple designed interface makes the software user friendly.

It will save the detection data and name file automatically, and it is easy to review the files.

There is no need to worry about the loss of experimental data.

Set U disk upgrade interface, and maintain the latest and most complete function at any time



Wireless connection

WiFi connected PAD to control the detection and results display and storage without need the cables. Dynamic detection realizes remote controlling and timing reading the results without manual intervention.

NanoReady

Micro UV-Vis Spectrophotometer

Functions

★ Nucleic acid detection

Built-in common calculation formula of dsDNA,ssDNA,RNA,Oligo-DNA,Oligo-RNA, can get the concentration and purity of samples automatically.

” UV visible custom scanning

In the full wavelength range, set the detected wavelength through increasing or decreasing wavelength with 1 nm as expected.

” Protein detection

Can detect the concentration of protein solution, or detect protein concentration of dye marker. Built-in common detection methods of BCA,Bradford,Lowry,Pierce 660nm.

” Nucleic acid fluorescence marker detection

Preinstall extinction factor of commonly used fluorescent dyes of dsDNA,ssDNA,RNA,Oligo-DNA,Oligo-RNA.

” Cell detection

Can detect absorbance value at 600nm automatically. Meanwhile, it can detect absorbance value at any band under set wavelength range.

Specifications

Parameters		FC-1100	F-1100
Detector		2048-element liner CCD array	
Mini. Sample Amount (μl)		0.5	
Mini. Pathlength (mm)		0.05	
Wavelength Range (nm)		185-910	
Wavelength Accuracy (nm)		±1	
Spectral Resolution (nm)		H 1.8(FWHMat Hg 253.7nm)	
Absorbance Accuracy		0.002 (1mm optical length)	
Absorption Accuracy		3%(at .74A at 350nm)	
Limit of Detection		2ng/μl dsDNA	
Max.Detection Concentration		15000ng/μl dsDNA	
Detection Time		5 Sec.	
Cuvette Mode	Heating Temp. Å Å	37±0.5	null
	Mixing Speed (RPM)	150-850	null
	Optical Length (mm)	10,5,2,1	null
	Limit of Detection	0.4ng/μl dsDNA	null
	Max.Detection	750ng/μl dsDNA	null
Data Interface		USB	
Wireless Connection		Wifi	
Software Update		USB direct update	
Accessory		Pipette holder	
Power		AC110V-220V 50HZ/60HZ (Power adapter)	
NET Weight:		2.1KG	2.0KG

FluoReady

Immunofluorescence detection system

FluoReady is a professional instrument designed for immune fluorescence quantitative detecting. To working with different kinds of the immunofluorescence detection kits, the system is suitable for clinical POCT (point of care testing) medical test, emergency treatment, clinical laboratory, ICU/CCU, clinical department and the community health care, even though the food safety detection fields, which is an ideal device for fast detection.

Through detecting the fluorescence, which can be excitation by the sold state laser, it can quantitatively detect very low concentration of immune markers.

Due to the special application use, the system is to be customized for your reagent and chips. We can add the built-in barcode to bundle your kits with the system. With the software control, the machine can realize the IC card reading authentication and other DIY functions.

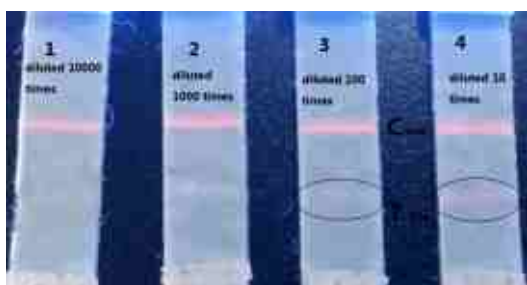


TEST Items

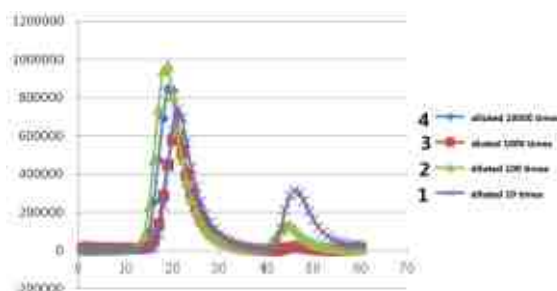
The system is used for various immuno-fluorescence kits, cards, CF647, ALEX647 fluorescent markers and so on.

Example

Urine sample detection tests (HCG antigen Fluorescence immunochromatographic kits)



Positive sample Diluted 10000 Positive sample Diluted 1000 Positive sample Diluted 100 Positive sample Diluted 10



Fluorescent microspheres, 365nm/615nm

FluoReady

Immunofluorescence detection system



Specification

Name	Immunofluorescence Detection System
Display	5.7' LCD touch screen
Detection Time	45s
Detection sensitive	0.1 fmol (measured by CF647)
Storage	500 data
Excitation wavelength	620nm
Emission wavelength	670nm
Detected fluorescein	CF647/ALEX647
Detection width of sample	3-5mm
Detection length of sample	15mm
Connector	PC connectable with professional PC software with reading and analyzing function
Power supply	100-240V, 50/60HZ

AccuReady

M Series- Manual mechanical pipette

Features

- ★ The hollowed out handle fixes the pipette safer on the stand.
- ★ Ergonomic personnel care design makes the operator's work comfortable
- ★ High precision pipette compacts to most common tips.
- ” Single and multiple channels available



- ★ The dull polished rejecter with the low pipette force design ensures the easy finger pressing.

” Clearly visible volume range

” Interchangeable into the water resist filter to avoid the contamination and damage.



Name	Order No.
AccuReady M Single Channel 0.1~2.5µl	M01010
AccuReady M Single Channel 0.5~10µl	M01020
AccuReady M Single Channel 2~20µl	M01030
AccuReady M Single Channel 5~50µl	M01040
AccuReady M Single Channel 10~100µl	M01050
AccuReady M Single Channel 20~200µl	M01060
AccuReady M Single Channel 100~1000µl	M01070
AccuReady M Single Channel 1~5ml	M01080
AccuReady M Single Channel 1~10ml	M01090
AccuReady M 8 Channels 0.5~10µl	M08020
AccuReady M 8 Channels 5~50µl	M08040
AccuReady M 8 Channels 50~300µl	M08100
AccuReady M 12 Channels 0.5~10µl	M12020
AccuReady M 12 Channels 5~50µl	M12040
AccuReady M 12 Channels 50~300µl	M12100
Pipettes pack (Single Channel 0.1~2.5µl, 2~20µl, 20~200µl, 100~1000µl)	M01K01

AccuReady

C Series- Colorful mechanical pipette

” High precision

” Ergonomic personnel care design makes the operator's work comfortable

” Pipette tip parts are easy dissembled for autoclave

” Full autoclavable H 8 times

” Durable plastics for the corrosion resistance

” Inside inject molded strong strings ensure high accuracy.

” Read the volume of pipette directly by the color.

” Single and multiple channels available



Model	Order No.
AccuReady C Single Channel 5~50μl	C01020
AccuReady C Single Channel 20~200μl	C01040
AccuReady C Single Channel 100~1000μl	C01060
AccuReady C Single Channel 1~5ml	C01070
AccuReady C 8 Channels 5~50μl	C01080
AccuReady C 8 Channels 50~300μl	C08040
AccuReady C 12 Channels 5~50μl	C08100
AccuReady C 12 Channels 50~300μl	C12040
	C12100

AccuReady

Full Autoclavable Pipette

AccuReady Full Autoclavable Pipette is designed to offer comfort and high quality manual pipetting with full autoclavable at Max.121 °C. While it shares many of the excellent features of M series & C series pipettes. It has a unique design with lower pressure force for pipetting. In addition, it has the lightest weight and micro adjusting measuring part to guarantee the accuracy of sample. The pipettes are an excellent choice for laboratory use.

New! coming soon !



Sgltlr lrr nntkx 2C olbst qd- Old` r d qledqsn
the final product after launching.

Features

- ★ Special material used so for **full autoclavable at up to 121°C** with the perfect UV resistance.
- ★ Low pipetting forces needed for pipetting, thereby reducing the risk of strain injury.
- ★ Good fit in hand: comfortable handle and an ergonomic finger support for effortless pipetting.
- ★ Opti-load structure allows tips to be loaded and ejected with minimum force, which reduces the risk of hand injuries.
- ★ Protect the Pipette with Safe-Cone Filters
- ★ The replaceable Safe-Cone Filter located inside the tip-cone prevents aerosols and fluids from penetrating the pipette, also in case of over aspiration.
- ★ Easy Maintenance and Calibration
- ★ No opening tools are needed for cleaning and maintaining pipettes, and only three parts need to be cleaned. These pipettes are also easy to be calibrated by using the calibration tool provided with the pipette.

AccuReady

Accessories



- ” X Stand (triangle): keeps the pipettes in vertical to avoid the contamination



- ” Tips: accurate and economic



- ” V Holder 120ml (5pcs) long AccuReady long AccuReady long AccuReady long AccuReady long AccuReady long

M l d	NøddqNo.
WStand (triangle)	X01001
V Holder 120ml(5pcs)	X01002
10µl(96pcs)tips in box	TK0110
200µl(96pcs)tips in box	TK0610
350µl(96pcs)tips in box	TK1010
1000µl(96pcs)tips in box	TK0710
1200µl(96pcs)tips in box	TK1110
5000µl(50pcs)tips in box: for M series	TK0820
5000µl(54pcs)tips in box: for C series	TK083C
10µl(1000pcs)tips in bag	TB0140
200µl(1000pcs)tips in bag	TB0640
350µl(1000pcs)tips in bag	TB1040
1000µl(500pcs)tips in bag	TB0750
1200µl(500pcs)tips in bag	TB1150
5000µl(100pcs)tips in bag	TB0860
5000µl(100pcs)tips in bag	TB086C
10ml(100pcs)tips in bag	TB0960

AccuReady

Motorized Pipette controller

AccuReady Motorized Pipette controller built with highly precise motor controls and stepless speed regulation. The pipette controller works well with most popular glass and plastic pipettes/tips in the range of 0.1ml to 100ml. It has an intuitive colorful LED to show the procedure of the pipette controller, aspirating or ejecting.

With the ability to compensate for pressure, this controller will prevent corrosion due to harmful vapors. To help increase productivity, the battery lasts up to 2000times pipetting (for 25ml tips), and the controller can be used while the battery is recharging. It is designed for ultimate comfort and ergonomic safety, which saves time for the laboratory workers.

Features

- ★ Intuitive big LED display
- ★ Motor: stepless speed control either by manual buttons or three level preset speed by LED display buttons.
- ★ Overfilling protection filter: blocking any liquid from entering the unit so to protect the samples from cross contamination
- ★ Long working time: rechargeable environmentally friendly lithium polymer battery enables around 2,000 times of continuous work (for 25ml tips) after full charging.
- ★ Each unit comes with power supply (charging), filter, wall mounting and controller stand



Specification

Name	AccuReady Motorized Pipette controller
Volume	0.1ml~100ml
Adjustable speed	manual button stepless speed adjustment or LED display motor preset speed (Low, Middle, High)
Aspirating speed	10s for 50ml pipettes
Pipetting mode	gravity pipette or pump blow out
Filter	0.45μm
Charging time	3hours
Pipetting time	2000 times for 25ml pipettes
Battery volume	1,100mAh/3.7V
USB power supply	100V-240V, 5V/2A AC±10%, 50/60Hz
Net WT	160g

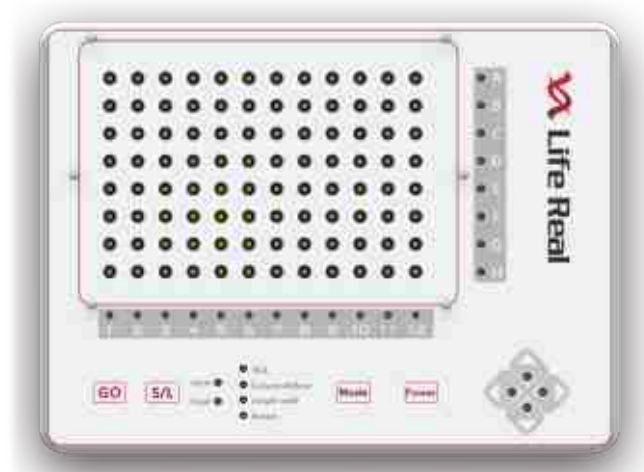
AccuReady

Plate Pipetting Indicator

Plate Pipetting Indicator provides the simple way to track the loading of samples by illuminating the target wells. It can fit with a single well or a complete row or column of wells or 96well plates.

Features

- ★ 3 selectable light intensities
- ★ Compatible for 96well PCR plate or Elisa Plate
- ★ Applicable for all standard single channels, 8 channel, 16 channel pipettes
- ★ Intuitive and easy operation with the pre-programmed loading patterns
- ★ Compact and portable
- ★ Water resistance for safety operation
- ★ Two optional indicating methods: by manual or by foot pedal
- ★ 100~240V wide voltage input with the default power plugs



foot pedal



power plugs

Technical Specification

Parameter	Specification
Compatible Plate	96well PCR plate or 96well Elisa plate
Programs	12 preset and user selectable loading patterns
Light Source	LED
Input voltage	3.5~5.3V
Power consumption	400mA
Accessories	Mini USB, foot pedal
Size (L * W * H)	18.8*14*1.2 cm
Power Supply	100~240V input power, 5VDC, 1A

SpinReady

Mini Centrifuges

SpinReady includes a series of the personal micro-centrifuges for the quick spin-downs of small samples. The cute round design with the small footprint and several choices of models satisfy the laboratory users.

Features

- ★ Small footprint, compact design
- ★ Ideal for microfiltration and quick spin-downs
- ★ Easy operate with the start/stop button
- ★ Safe: the rotor stops when lid open
- ★ Easy rotor change without tools
- ★ Quick: accelerates and brakes in seconds
- ★ Wide input voltages
- ★ CE marked

Fast spin your sample!



SpinReady comes with an 8-pcs fixed angle rotor for 1.5mL to 2mL tubes, 8-tube adapters for 0.2mL or 0.5mL tubes and a rotor for 16 x 0.2mL PCR tubes or 2 PCR 8-tube strips. Each rotor can be easily interchanged by the user. For safety reasons, the rotors will stop automatically once the lid release button pushed. The motor provides a super quiet, vibration-free operation. The centrifuge is compact designed with the strongest spinning power of 7,500xg. And it can quickly accelerate to a maximum speed of 12,000 rpm and stops within seconds. SpinReady12000 stands stable with its rubber feet. And the transparent lid allows the user to view the samples easily.

Features

- ★ Sample capacity: up to 8 pcs of 1.5/2.0ml tubes
- ★ Maximum speed up to 12,000rpm (7,245xg)
- ★ Ideal for quick spins
- ★ Speed and time adjustable
- ★ Accelerates and stops quickly
- ★ Rubber feet for vibration-free operation
- ★ Stable triangle shaft of rotors- more safe and easy
- ★ Aerospace used motor ensures the **ultra-low noise level H45 dB**



SpinReady

Mini Centrifuges

SpinReady 8500 is a high end mini benchtop centrifuge with the electronic lock lid. The operation to the centrifuge is easy with one button clicking. The housing materials use the strong but light plastics, which ensures the light weight and quiet but vibration free operation.

Features

- ★ Advance **electronic lock lid** ensures the safety protection to the user.
- ★ Self-checking when power on
- ★ Fixed high speed up to 8500rpm
- ★ Quiet, low noise <52dB
- ★ Two interchangeable fixed angle rotors:
- ★ 8X 1.5ml/2.0ml tubes, 8X0.2ml PCR strip
- ★ One button operation, easy and quick
- ★ Accelerates and stops quickly without vibration
- ★ Automatic stop when lid open
- ★ Special motor from Aviation industry guarantees the quiet but vibration free operation.



Specifications

Model		SpinReady 8500	SpinReady 1500
Speed		4,000~ 12 ,000 rpm	8,500 rpm
RCF		7,245 x g	3,635 x g
Rotors (standard)		<ul style="list-style-type: none"> • Round rotor: 8pcs for 1.5mL / 2.0mL tubes, • 8pcs adapters for 0.5mL tubes • Strip rotor: 16 x 0.2mL tubes or 2 x 0.2mL 8-tube PCR strips 	
Materials	Lid	polycarbonate (PC)	
	Body & Rotor	ABS Resin	
	Base feet	rubber	
Input Power		AC100-240V, 50/60Hz	AC90-264V, 50/60Hz
Environmental Tempt.		Incubators up to 50°C and cold rooms down to 4°C	
Net Weight		1.5kg	3.5kg

SpinReady

Mini Centrifuges

SpinReady7000 /SpinReady5000 comes with two rotors for 8*2ml or 2*8*0.2ml strips. The fixed speed makes the operation easily and quickly. The rotors will stop automatically once the lid release opened or run automatically when lid closed. The centrifuge will run continuously with the lid on. There has double lock design for safety consideration.

SpinReady6500 has two models with the rotor of 6*0.5/1.5ml or 2*8*0.2ml strips. It has the specific design to reduce the noises.



Features



- ★ Fixed speed at 5000rpm, 6500rpm or 7000rpm respectively
- ★ Easy-to-use with the dual start/stop buttons
- ★ Two kinds of rotors for 2mL tubes or 8-PCR strips
- ★ Space saving with the palm design
- ★ Fast and quick run and stop
- ★ Safe with the double lock design
- ★ DC motor with the stable performance

Table

b	{	{	{	{
{	7000 rpm	5000 rpm	6500rpm	6500rpm
RCF	2,680 x g	2,680 x g	2,000 x g	1,700~2,000 x g
Rotors	<ul style="list-style-type: none">Round rotor: 8pcs for 1.5mL / 2.0mL tubes8pcs-tube adapter for 0.2mL or 0.5mL tubesStrip rotor: 16 x 0.2mL tubes or 2 x 0.2mL 8-tube PCR strips		Round rotor: 6 pcs for 1.5ml/0.5ml tubes	Strip rotor: 16 x 0.2mL tubes or 2 x 0.2mL 8-tube PCR strips
Rotor Materials	High strength plastics			
Input Power	AC100-240V, 50/60Hz		AC 100V~120V/200V~240V,50/60Hz	
Net Weight	0.5kg			

SpinReady

High Speed Benchtop Centrifuge

SpinReady 13900 is a high speed benchtop centrifuge with the Max. Speed of 13900r/min. It can run up to 12 pcs of 1.5ml or 2.0ml tubes. The stable qualified DC brushless motor guarantees the strong torque and maintenance free with the long life time. The flexible axle driven system drives the rotor directly, so as smooth in operation, low noise and small vibration .

The instrument is widely used in the area of animal and plant molecular biology, cell biology, clinical application, and blood, protein precipitation, separating the biology, viruses, and chemicals, etc.



Features

- ★ Ultra low noise < 56dB
- ★ Quick run/stop function
- ★ The easy intuitive panel design for easy operation
- ★ Microcomputer control system, with clear digital displaying the time and speed
- ★ The rotors use the Nylon combined material with the strong and stable capability
- ★ Electronic lock to ensure the safety protection to the users
- ★ The high quality steel makes the instrument safe and reliable
- ★ Light weight of 7Kg with limited footprint for saving laboratory space

Technical Specifications

Model	Capacity
SpinReady 13900	12X1.5ml
Max speed	13900rpm
Max RCF	13600 x g
Driving system	Maintenance free brushless motors
Adjustable speed	300~13900 rpm, steps: 10rpm
Noise	< 56dB
Timing	1~99mins, continuous
Max temperature increase	< 12 °C
Outside dimension	270x180x160 mm
Power supply	AC 100V~120V/200V~240V, 50/60Hz 80W
Net WT	7Kg

SpinReady

Plate Centrifuge

Plate Centrifuge is a specially designed personal-sized centrifuge for multi-plates, such as PCR plate, ELISA plate, cell culture plate or the deep well plate.



SpinReady SP200P can carry up to 4 x ELISA plates or 2 x PCR plates or 2 x deep well plates at the same time. The max. speed is 2000rpm with the centrifugal force(RCF) of 600 x g.

SP200P runs quietly driving directly by the high force torque motor. It shows time and speed intuitively in digits. The loading of the samples is easy and convenient. It has a fast ramping rate of speed and has the “Spin” –instantaneous centrifugal function.

SP200P is your excellent assistant in the lab as a personal plate centrifuge with the minimum size but the strong capability.

Features

- ★ Strong force- directly driven by torque motor
- ★ Max. speed up to 2000rpm, Max. RCF up to 600 x g
- ★ Setting time and speed by pressing buttons easily
- ★ “Spin”- the instantaneous centrifugal function
- ★ Microcomputer controlled unit, time and speed digital displayed
- ★ Safety locker, automatically stop when open the lid
- ★ Small footprint and light weight

Specifications

Name	SpinReady SP200P
Max. speed	2000 rpm, RCF 600 x g
Sample capacity	4 x ELISA plate or 2 x PCR plate or 2 x Deep well plate
Speed setting range	500-2000 rpm
Noise	<60dB
Time setting range	1-99 mins, continuous
Max temperature increase	< 12 °C
Driving system	Directly driven by high force torque motor
Dimension	31cm x 38cm x 30cm
Power Supply	AC 100V~120V/200V~240V,50/60Hz, 150W
Net weight	12Kg

IEReady

Horizontal gel electrophoresis system

IEReady is a kind of durable and light weight horizontal gel electrophoresis apparatus, with the removable gel trays made by UV-transparent polycarbonate so to allow easy viewing of ethidium bromide-stained nucleic acids. The well-forming combs provide many choices for making narrow, wide, or preparative gels. GelReady is widely used in many fields, i.e., teaching, scientific research, biochemical or medical inspections.

Features

- ★ UV-transparent clear gel tray with fluorescence label
- ★ Heat resistance at up to 100 °C without deforming
- ★ No need to preheat the agarose before gluing
- ★ High quality build-in electrodes resists leakage or spillage of the buffer
- ★ Removable power cords & electrode frame prolongs the lifetime of the parts

IEReady H001 is the versatile horizontal electrophoresis cell that effectively separates many kinds of nucleic acids using submerged agarose gels. By using proper combs & trays, the H001 can effectively separate the nucleic acids from 20bp to 20Kbp. The H001 system is an ideal apparatus for separation DNA restriction digestions, Polymerase Chain Reaction (PCR*)-amplified fragments, or genomic DNA or RNA prior to Southern or northern blotting.



” Many kinds of combs for versatile gels ” Up to 108 samples per run

Kit Contents

1x Buffer tank 1x Lid with cables 4x trays 4x combs 1x glue device

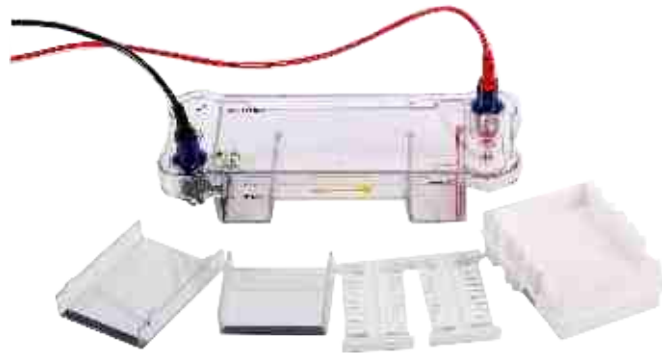
Technical Specifications

Model	IEReady H001
Dimensions (mm)	130×65mm; 65×130mm; 65×65mm
Well Size (mm)	9+9/19well, 0.75mm thick
Well Size (mm)	9+9/19well, 1.5mm thick
Well Size (mm)	2.0mm thick
Material	UV-transparent polycarbonate
Temperature Resistance (°C)	Up to 100
Power Consumption (W)	~10W
Weight (kg)	~0.5

IEReady

Horizontal gel electrophoresis system

IEReady H002 is specifically designed for the rapid separation of nucleic acids, which can separate and analysis up to 48samples within 20 minutes. It has many unique advantages in DNA fragment recovery experiments, such as working with different types of electrophoresis buffers, saving the buffer, separating the sample rapidly and so on.



★ Up to 48 samples within 20 minutes.

Contents (1set)

1x Buffer tank 1x Lid with cables 1x glue device 1x tray 1x comb

Specifications

Name	IEReady H002
Buffer Tank Dimensions L ÜWÜH	250×120×110mm
Gel tray size WÜL	70×100mm/ 70×70mm
Comb specifications	9 and 16 wells,0.75mm thick
	9 and 16 wells,1.0mm thick
	9 and 16 wells,1.5mm thick
Buffer capacity	400ml
Input Power	300V, 150mA, 50W.
Net weight	1.5kg

IEReady

UV free safe illuminator gel documentation system

Features

- ★ Ideal for both DNA/RNA and protein gels
- ★ Versatile for none UV conditions, safe to the operator
- ★ Good for safe DNA Dye (safer alternative to Ethidium Bromide)
- ★ Portable and small foot print (200x200x340mm)
- ★ View, capture and save images all in one system.

New! coming soon!



This is only 3D picture. Please refer to the final product after launching.

IncuReady

Multifunctional Benchtop Incubator

IncuReady Multifunctional Benchtop Incubator is a digital personal incubator of 22.5liters, with the optional accessories to realize multifunction, including the UV cross linking part and hybridization rotator. It has a small footprint with the light weight, low noise and the elegant appearance, which is an ideal device for personal use in the laboratory.



Applications

- ★ Drying and staining of slides or plates
- ★ Cell culture or microbial culture
- ★ UV sterilization
- ★ Nicking ethidium-bromide-stained DNA in agarose gels
- ★ Gene mapping for creating cleavage-inhibiting thymine dimers
- ★ Crosslinking of DNA and RNA by covalently binding nucleic acids to nylon or nitrocellulose membranes after Northern, Southern, slot or dot blotting and colony
- ★ DNA, RNA and protein blotting techniques, cDNA library screening, nucleic acid synthesis and nucleic acid, protein hybridization experiment operation, etc.

Features

- ★ Safe and accurate
 - Stainless steel chamber sustains the high temperature up to 80 °C with fast heating rate.
 - The antibacterial silicone rubber gasket sealed door resists heat evaporation
 - Independent over-temperature alarm system ensures safe operation
 - Scratch-resistant chamber for easy clean and UV disinfection
- ★ Easy to use
 - 12 digital display of time and temperature clearly
 - Intuitive control panel for fast time and temperature setting
 - Door can be opened at 180 ° for sample loading and chamber cleaning easily ;
 - Transparent door with anti-UV glass for easy observation

IncuReady

Multifunctional Benchtop Incubator

Multifunction- 3 in 1

Incubation

The instrument uses 5D gravity flow circulation temperature control technology. It ensure the temperature uniformity and volatility low of 0.65 . For some small experimental provide reliable and trouble-free temperature conditions.

With 22.5 liters capacity, it can be placed in two standard shelves, which can hold up to 12pcs standard culture plates (128 × 85mm) or 4 flasks (2L)

Hybridization

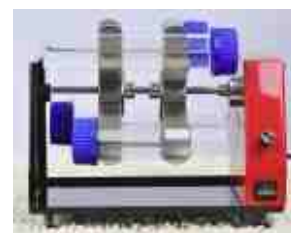
Hybridization is another function with the hybridization rotator. The Hybridization rotator can be placed inside the chamber of the incubator. The rotating speed is adjustable between 4-20rpm. The hybridization parts can be placed up to four standard hybridization tube (40 × 200mm or 40 x 120mm), or 4 standard 50ml conical bottom tube

UV Cross linker

UV cross linker function is available with the UV crosslinking part. The part uses smart micro processing control system and the unique UV energy control system. The UV part is made by 7 UV lamps (254nm), and each lamp powers at 6W with a total power of 42W.



Incubation shelf
(MPI-22-FB)



Hybridization rotator
(MPI-22-FC)



UV Crosslinking part
(MPI-22-FR)

Specification

Model	MPI-22-H
Volume	22.5 Liters
Shelf capacity	hold up to 12 standard plates or 4 flasks (2 liters)
Hybridization capacity	Hold up to 4 standard hybridization tubes or 4 conical bottom bottles(50ml)
UV Crosslinking part	Seven 245nm UV lamp, power is 6W×7(42W)
Temp. uniformity	H ±0.65□ at 37□
Temp. fluctuation	H ±0.65□ at 37□
Temp. display accuracy	0.1□
Temp. control range	Room temp. +5□ i 80□
Temp. set range	0 85□
Heating time	H 28min(from 25□ to 80□ ,
Heater power	250W
UV disinfection lamp power	6W
Max. UV crosslinking time	999.9min
Max. UV energy	999900 mJ/cm ²
UV crosslinking mode	Automatically optimizes(Pre-set does is 120 mJ/cm ²)
Speed of Hybridization	4 20rpm
Hybridization power	100 240V, 50Hz/60Hz
Dimension	400□345□463mm L□W□H
Incubator power	100V 120V / 220 240V, 50Hz/60Hz
Net weight	18Kg

Order Information

GeneReady	Order No.	Page
Standard Biological Sample Preparation System	BSH-2	1-5
Ultracool Biological Sample Preparation System	BSH-C2	1-5
Ultimate Biological Sample Preparation System	BSH-CL2	1-5
H-Max Horizontal Tissue Grinder	BSH-HM	9-11
NanoReady		
Micro UV-Vis Spectrophotometer (cuvette)	FC-1100	12-14
Micro UV-Vis Spectrophotometer	F-1100	12-14
FluoReady		
Immunofluorescence detection system	FCR	15-16
AccuReady		
M Single Channel 0.1~2.5µl	M01010	17
M Single Channel 0.5~10µl	M01020	17
M Single Channel 2~20µl	M01030	17
M Single Channel 5~50µl	M01040	17
M Single Channel 10~100µl	M01050	17
M Single Channel 20~200µl	M01060	17
M Single Channel 100~1000µl	M01070	17
M Single Channel 1~5ml	M01080	17
M Single Channel 1~10ml	M01090	17
M 8 Channels 0.5~10µl	M08020	17
M 8 Channels 5~50µl	M08040	17
M 8 Channels 50~300µl	M08100	17
M 12 Channels 0.5~10µl	M12020	17
M 12 Channels 5~50µl	M12040	17
M 12 Channels 50~300µl	M12100	17
M Pipettes Pack	M01K01	17
C Single Channel 0.5~10µl	C01020	18
C Single Channel 5~50µl	C01040	18
C Single Channel 20~200µl	C01060	18
C Single Channel 100~1000µl	C01070	18
C Single Channel 1~5ml	C01080	18
C 8 Channels 5~50µl	C08040	18
C 8 Channels 50~300µl	C08100	18
C 12 Channels 5~50µl	C12040	18
C 12 Channels 50~300µl	C12100	18
X Stand(triangle)	X01001	20
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Motorized Pipette controller	E01010	21
Plate pipetting indicator	X01003	22

Order Information

SpinReady Centrifuge	Order No.	Page
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SpinReady 6500S	SP06502	25
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Horizontal gel electrophoresis system (Multi)	H001	28
Horizontal gel electrophoresis system (Mini)	H002	29
IncuReady		
Multifunctional Benchtop Incubator	MPI-22-H	31-32
GeneReady Kits		
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Plant P I 200T/kit	KP01-200	
Plant P I 400T/kit	KP01-400	
Plant P II 200T/kit	KP02-200	
Plant P II 400T/kit	KP02-400	
Plant P III 200T/kit	KP03-200	
Plant P III 400T/kit	KP03-400	
Tissue P I 200T/kit	KT01-200	
Tissue P I 400T/kit	KT01-400	
Tissue P II 200T/kit	KT02-200	
Tissue P II 200T/kit	KT02-400	
Tissue P III 200T/kit	KT03-200	
Tissue P III 400T/kit	KT03-400	
Microbe P I 200T/kit	KM01-200	
Microbe P I 400T/kit	KM01-400	
Microbe P II 200T/kit	KM02-200	
Microbe P II 400T/kit	KM02-400	
Plant RNA 200T/kit	KP11-200	
Plant RNA 400T/kit	KP11-400	
Tissue RNA 200T/kit	KT11-200	
Tissue RNA 400T/kit	KT11-400	
Microbe RNA 200T/kit	KM11-200	
Microbe RNA 400T/kit	KM11-400	






Life Real

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