

Hotplate Magnetic Stirrer



Technical Parameters:

Model	MYP11-2	MYP11-2A	SH05-3G	X85-2	X85-2S
Work Plate Size	φ145mm		φ175mm	φ145mm	
Work Plate Material	Aluminum alloy		Stainless steel	Aluminum alloy	
Max. Stirring Capacity	5L		10L	5L	
Motor Type	Brushless DC motor				
Motor Output	15W			10W	
Speed Range	0-1500rpm				
Digital Display	Speed, temperature, time			/	Speed
Control	Button	Knob + Button	Button	Knob	
Heating Output	600W		800W	600W	
Heating Temp. Range	RT-320°C		RT-250°C	50-300°C	
Temp. Accuracy	±0.5°C		±1°C	/	
Timing Range	1-9999min		1-250min	/	
Power Supply	Standard: AC220V, 50/60Hz; optional: AC110V, 50/60Hz				
External Size(W*D*H) mm	280*160*90		330*190*130	250*150*135	
Package Size(W*D*H) mm	380*300*190		430*330*230	360*290*240	
Gross Weight(kg)	4.5		7	6	

Technical Parameters:

Model	MS7-H550-Pro	MS7-H550-S	MS-H-ProA	MS-H-Prot	MS-H-S	MS-H280-Pro
Item No.	8030122111	8030122211	8060221110	8030201110	8030211010	8030101212
Work Plate Size	184*184mm (7 inch)		φ135mm (5 inch)			
Work Plate Material	Glass ceramic		Aluminum	Stainless steel with ceramic coated		
Max. Stirring Capacity	20L	10L	20L			3L
Motor Type	Brushless DC motor	Shaded pole motor	Brushless DC motor			
Motor Input	18W	15W	18W			5W
Motor Output	10W	1.5W	10W			3W
Speed Range	100-1500rpm	0-1500 rpm	100-1500rpm	0-1500rpm		200-1500rpm
Speed Display	LCD	Scale	LCD	Scale		LED
Speed Display Accuracy	±1rpm	/	±1rpm	/		/
Heating Output	1000W	/	600W	500W		/
Heating Temp. Range	RT-550°C, increment 1°C	RT-550°C, increment 5°C	RT-340°C, increment 1°C	RT-340°C		RT-280°C, increment 1°C
Control Temp. Accuracy	±1°C(<100°C), ±1%(>100°C)	±10°C	±1°C(<100°C), ±1%(>100°C)	/		±1°C(<100°C), ±1%(>100°C)
Overheating Protection	580°C	/	420°C	/		320°C
Temp. Display	LCD	LED	LCD	Scale		LED
Display Temp. Accuracy	±0.1°C	±1°C	±0.1°C	/		±1°C
Timing Range	/	/	1-99h59min	/		/
Optional Accessory	PT1000 (accuracy ±0.2°C)			/		PT1000 (accuracy ±0.2°C)
Residual Heat Warning	50°C			/		50°C
Max. Stirrer Bar Length	80mm			/		50mm
Interface	RS232	/	RS232	/		/
Protection Type	IP21			/		IP42
Working Environment	5-40°C, 80%RH					
Power Consumption	1050W	1030W	720W	550W	530W	515W
Power Supply	AC110/220V±10%, 50/60Hz (Customizable)					
External Size(W*D*H) mm	215*360*112mm		160*280*100mm			
Package Size(W*D*H) mm	490*350*260mm		470*250*240mm			
Gross Weight	7kg	/	4kg	3.5kg		3kg

**BIOBASE<sup>®</sup>**

**7'Square (Hotplate) Magnetic Stirrer  
MS7-H550-Pro&MS7-H550-S&MS7-S&  
HP550-S  
User Manual**

**BIOBASE GROUP**

**Version 2021.04**

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## **Preface**

Welcome to the 7' Square Hotplate Magnetic Stirrer". Users should read this Manual carefully, follow the instructions and procedures, and be aware of all the cautions when using this instrument.

## **Service**

When help needed, you can always contact the Service Department of manufacturer for technical support.

Please provide the customer care representative with the following information:




- Serial number (on the rear panel)
- Certification
- Description of problem (i.e., hardware or software)
- Methods and procedures adopted to resolve the problems
- Your contact information

## **Warranty**

This instrument is warranted to be free from defects in materials and workmanship under normal use and service, for a period of 12 months from the date of invoice. The warranty is extended only to the original purchaser. It shall not apply to any product or parts which have been damaged on account of improper installation, improper connections, misuse, accident or abnormal conditions of operation.

For claims under the warranty please contact your local supplier. You may also send the instrument directly to manufacturer, enclosing the invoice copy and by giving reasons for the claim.

## 1. Safety Instructions

	<p>Warning!</p> <ul style="list-style-type: none"> <li>•Read the operating instructions carefully before use.</li> <li>•Ensure that only trained staff works with the instrument.</li> </ul>
	<p>Risk of burn!</p> <ul style="list-style-type: none"> <li>•Caution when touch the housing parts and the hotplate which can reach temperature of 550°C</li> <li>•Pay attention to the residual heat after switching off.</li> </ul>
	<p>Protective ground contact !</p> <ul style="list-style-type: none"> <li>•Make sure that socket must be grounded(protective ground contact) before use.</li> </ul>

- When working wear personal safety guards to avoid the risk from:
  - Splashing and evaporation of liquids
  - Release of toxic or combustible gases
- Set up the instrument in a spacious are on a stable, clean, non-slip, dry and fireproof surface. Do not operate the instrument in explosive atmospheres, with hazardous substances or under water.
- Gradually increase the speed, reduce the speed if:
  - Stirring bar breaks away due to high speed
  - The instrument is not running smoothly, or container moves on the base plate
- Temperature must always be set to at least 50°C lower than the fire point of the media used.
- Be aware of hazards due to:
  - Flammable materials or media with a low boiling temperature
  - Overfilling of media
  - Unsafe container
- Process pathogenic materials only in closed vessels.
- Check the instrument and accessories prior to each use. Do not use damaged components. Safe operation is only guaranteed with the accessories described in the “Accessories” chapter. Accessories must be securely attached to the device and can not come off by themselves. Always disconnect the plug before fitting accessories.
- When the external temperature sensor needed, the tip of the measuring sensor must be at least 5-10mm from vessel bottom and wall.
- The instrument can only be disconnected from the main power supply by pulling out the main or the connector plug.
- The voltage stated on the label must correspond to the main power supply.
- Ensure that the main power supply cable does not touch the hotplate. Do not cover the device.
- Forbid to put pressure and over heat media on the surface of glass ceramic that can be caused surface broken.

- The instrument may only be opened by experts.
- Keep away from high magnetic field.

## 2. Proper use

The instrument is designed for mixing and/or heating liquids in schools, laboratories or factories.

- Observe the minimum distances between the devices, between the device and the wall and above the assembly (min. 100 mm)

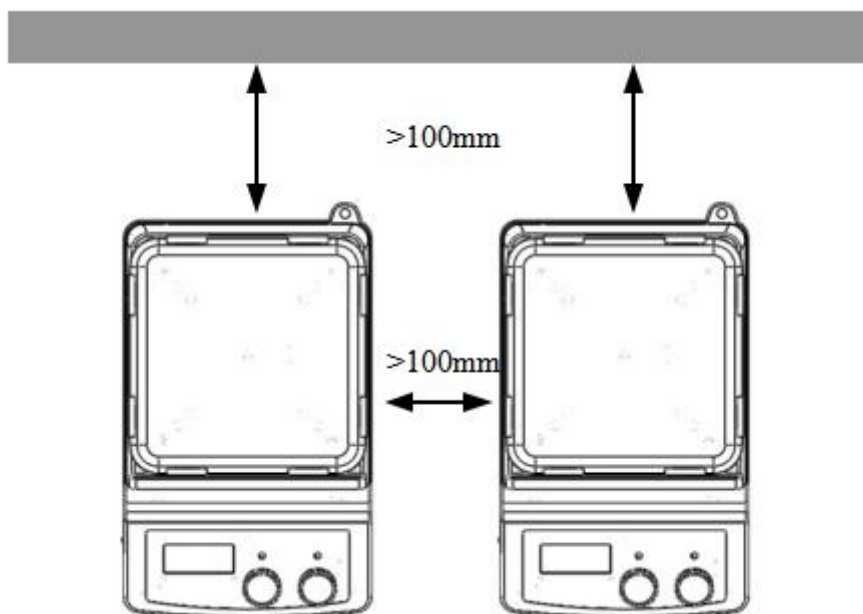


Figure 1

This device is not suitable for using in residential areas or other constraints mentioned in Chapter 1.

## 3. Inspection

### 3.1 Receiving Inspection

Unpack the equipment carefully and check for any damages which may have arisen during transport. Please contact manufacturer/supplier for technical support.



**Note:**

If there is any apparent damage to the system, please do not plug it into the power line.

### 3.2 Listing of Items

The package includes the following items:

Items	Qty
Main unit	1
Power cable	1
User Manual	1

Table 1

## 4. Control

### 4.1 Control elements

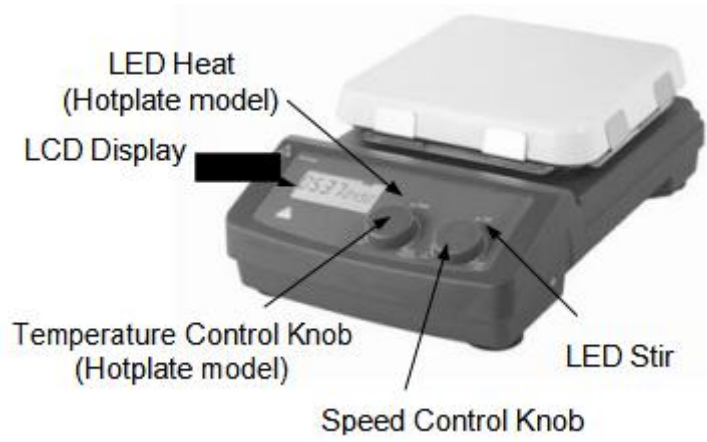


Figure 2 LCD digital model

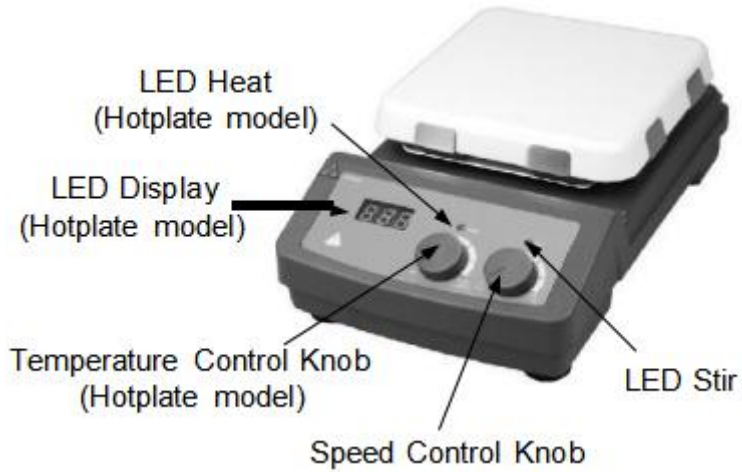


Figure 3 LED digital model

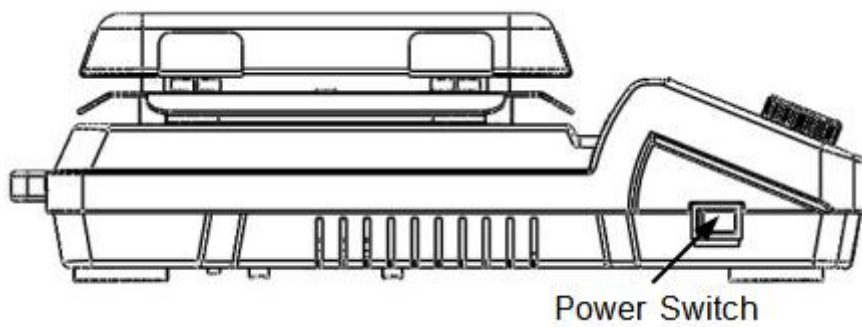


Figure 4

	Items	Descriptions
LCD digital model	Speed control knob	Set the rated rotary speed. The stirring function is switched ON or OFF by pushing the knob.
	Temperature control knob <b>Hea</b> (Hotplate)	Set the rated temperature. The heating function is switched ON or OFF by pushing the knob.
	LCD Display	LCD displays the real working state and all settings.
	LED Heat (Hotplate)	When the heating function is switched ON, the LED Heat is lit.
	LED Stir	When the stirring function is switched ON, the LED Stir is lit.
	Power Switch	Switch ON or OFF the instrument.
LED digital model	Speed control knob <b>Sti</b>	The stirring function is switched ON or OFF by rotating the knob.
	Temperature control knob <b>Hea</b> (Hotplate)	The heating function is switched ON or OFF by rotating the knob.
	LED Display (Hotplate)	If rotate the heating knob, LED displays the temperature setting value and shift to real value in the duration of 5 seconds.
	LED Heat (Hotplate)	When the heating function is switched ON, the LED Heat is lit.
	LED Stir	When the instrument is switched ON, the LED Stir is lit.
	Power Switch	Switch ON or OFF the instrument.

Table 2

### 4.2 Display

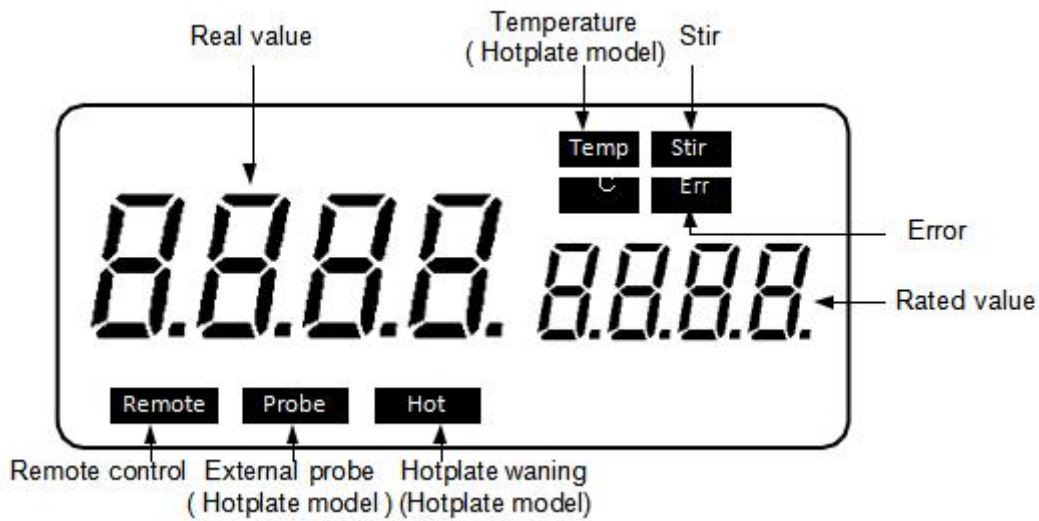


Figure 5 LCD digital model

Characters	Descriptions
<b>Temp</b> and <b>°C</b>	Display temperature when the heating function is switched ON.
<b>Stir</b>	Display stirring state when the stirring function is switched ON.
<b>Hot</b>	Display hot warning if the heating plate temperature is above 50°C after switching OFF the heating function.

<b>Probe</b>	Display when using external probe.
<b>Remote</b>	Display in case of remote control.
<b>Err</b>	Display in case of error happening.
Rated value/Real value	Display value in case of heating or stirring function switching ON.

 **Note:**

If both heating and stirring functions have been started at the same time, heating function always has higher priority. If in this case speed is changed via the stirring knob, it displays stirring speed and reverses to temperature in the duration of 5 seconds.



Figure 6 LED digital hotplate model

<b>Display</b>	<b>Descriptions</b>
Display area	When heating function was switched ON, LED displays the temperature setting value and shifts to real value in 5 seconds. When the heating function is switched OFF and the hotplate temperature is still above 50°C, LED displays HOT, otherwise LED displays 0.

## 5. Trial run

- Make sure the required operating voltage and power supply voltage match.
- Ensure the socket must be properly grounded.
- Plug in the power cable, ensure the power is on and begin initializing.
- Add the medium into the vessel with an appropriate stirring bar.
- Place vessel on the work plate.
- Set the target stirring speed and begin.
- Set the target temperature and start heating (hotplate model).
- Stop the heating and stirring functions.

If these operations above are normal, the device is ready to operate. If these operations are not normal, the device may be damaged during transportation, please contact manufacturer/supplier for technical support.



### **Warning !**

Forbid to transfer the vessel when the instrument working.

## 6. Working with external temperature sensor (Hotplate Model)

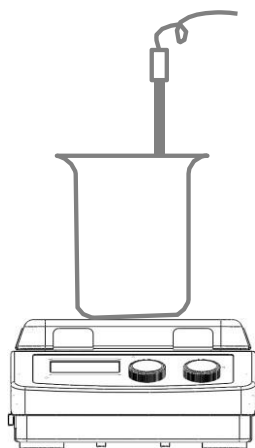


Figure 7

### 6.1 LCD digital hotplate model

The external temperature sensor PT1000 is manufacturer's standard accessory. If the sensor is plugged in, "Probe" will be shown on the LCD digital display to indicate the sensor is operating. The setting value of external temperature sensor and actual temperature are displayed. Safe circuit controls hotplate temperature. Comparing with the temperature control of the hotplate, the external temperature sensor can control the medium's temperature more precise. The heating function will be stopped automatically under abnormal conditions. Please operate follow the instructions below:

- Switch OFF the instrument.
- Ensure the external temperature sensor is inserted in the media heated.
- Switch ON the instrument and run heating function.

If the heating function does not work, please contact manufacturer/supplier for technical support.

## 6.2 LED digital hotplate model

The external temperature sensor PT1000 is the manufacture's standard accessory. If the sensor is plugged in and rotate the heating knob, LED displays the temperature setting value and shifts to real value in 5 seconds. Safe circuit controls hotplate temperature. Comparing with the temperature control of the hotplate, the external temperature sensor can control the medium's temperature more precise. The heating function will be stopped automatically under abnormal conditions. Please operate follow the instructions below:

- Switch OFF the instrument.
- Ensure the external temperature sensor is inserted in the media heated.
- Switch ON the instrument and run heating function.

If the heating function does not work, please contact manufacturer/supplier for technical support.

## 7. Residual heat warning(HOT)

In order to prevent the risk of burns from the hotplate, digital hotplate model has a residual heat warning function. When the heating function is switched off and the heating plate temperature is still above 50°C, "Hot" will flash to warn that there is a hazard of burns from the hotplate. When the hotplate temperature drops to below 50°C, the unit will automatically switch off. If users want to turn off the LCD or LED screen immediately, just pull out the plug directly. When the power OFF, the residual heat warning function cannot be run.

## 8. Remote Control (LCD Digital model)

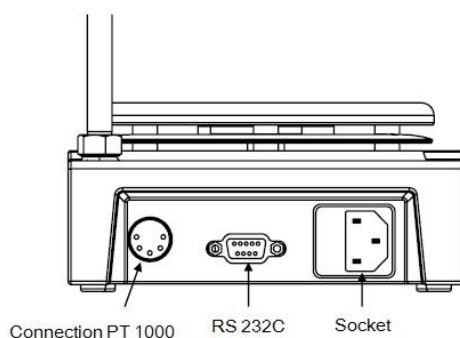


Figure 8

The unit can be controlled from an external PC (using the dedicated software) via the RS232C serial interface fitted to the unit. Data communication from laboratory instrument to computer is only possible on demand of the computer.

- The functions of the interface lines between laboratory instrument and automation system are selected from the specified signals of the EIA-standard RS232C, corresponding with DIN66020 Part 1. The allotment of the bushing can be taken from Figure 8.
- Transmission method: Asynchronous signal transmission in start-stop-operation.
- Mode of transmission: Fully Duplex. 1 start bit; 7 character bits; 1 parity bit [straight (even)]; 1 stop bit.
- Transmission speed: 9600 bit/s

- Start remote control knob, LCD displays “ Remote ”.

**Note:**

Forbid to insert or remove the RS232Ccommunication line when switch ON!

## 9. Faults

- Instruments can't be power ON
  - Check whether the power line is unplugged
  - Check whether the fuse is broken or loose
- Fault in power ON self test
  - Switch OFF the unit, then switch ON and reset the instruments to factory default setting.
- Stir speed cannot reach set point
  - Excessive medium viscosity may cause abnormal speed reduction of the motor
- Unit cannot be powered OFF when switched OFF.
  - Check if the residual heat warning function is still ON and hotplate temperature is above 50 °C(the LCD/LED screen still work and “Hot” flash).

If these faults are not resolved, please contact manufacturer/supplier.

## 10. Maintenance and Cleaning

- Proper maintenance can keep instruments working properly and lengthen its lifetime.
- Do not spray cleanser into the instrument when cleaning.
- Unplug the power line when cleaning.
- Only use recommended cleansers:

Dyes	Isopropyl alcohol
Construction materials	Water containing tenside / Isopropyl alcohol
Cosmetics	Water containing tenside / Isopropyl alcohol
Foodstuffs	Water containing tenside
Fuels	Water containing tenside

- Wear the proper protective gloves during cleaning of the instrument.
- Before using other method for cleaning or decontamination, the user must ascertain with the manufacturer that this method will not harm the instrument.
- Send in the case of service the instrument back in the packaging carton. Storage packing is not sufficient for the back dispatch. Use additionally a suitable transportation packing.
- The enamel makes the hotplate easier to care for and more resistant to acids and bases. Because of it, however, the hotplate is also more susceptible to extreme fluctuations in temperature and the force of impact. This can result in cracks forming or the coating flaking off.

**Warning!**

Power OFF when maintenance and cleaning.

## 11. Associated standards and regulations

Construction in accordance with the following safety standards:

EN 61010-1  
UL 3101-1  
CAN/CSA C22.2(1010-1)  
EN 61010-2-10

Construction in accordance with the following EMC standards:

EN 61326-1

Associated EU guidelines: EMC-  
guidelines: 89/336/EWG Instrument  
guidelines: 73/023/EWG

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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## 12. Specifications

Items	Specifications	
	LCD digital model	LED digital model
Voltage [VAC]	100-120/200-240	
Frequency [Hz]	50/60	
Power [W]	*1050/50	*1030/30
Stirring point position quantity	1	1
Max. stirring quantity (H <sub>2</sub> O) [l]	20	10
Max. magnetic bar [L×Ø, mm]	80×10	
Motor type	DC brushless motor	Shaded pole motor
Max. power input of motor [W]	18	15
Max. power output of motor [W]	10	1.5
Speed range [rpm]	100-1500	0-1500
Rotary speed display	LCD	Scale
Plate material	Glass ceramic	
Dimensions of workplate (mm)	184×184	
*Heating power [W]	1000	
*Temperature range [°C]	RT-550, increment: 1	RT-550, increment: 5
*Temperature display [°C]	LCD	LED
*Temperature display accuracy [°C]	±0.1	±1
*Control accuracy of heating temperature	±1(100°Cbelow) ±1%(100°Cabove)	±10
*The safety temperature of the hotplate	580	
*Temperature sensor in medium	PT1000	
*Control accuracy of heating temperature with temperature sensor [°C]	±0.2	±0.5
*Residual heat warning	50°C	
Dimensions (mm)	215×360×112	
Weight [kg]	*5.3 4.6	*4.5 3.8
Permitted ambient temperature [°C]	5-40	
Permitted relative humidity	80%	
Protection class acc. to DIN 60529	IP21	
RS232 interface	Yes	No

\*Hotplate model

Table 3

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After-sales service: [service\\_sd@biobase.cc](mailto:service_sd@biobase.cc); [service\\_ivd@biobase.cc](mailto:service_ivd@biobase.cc)

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Registration No. 04725Q10000429

## CERTIFICATE OF QUALITY MANAGEMENT SYSTEM FOR MEDICAL DEVICES

This is to certify that:

**Jinan Biobase Biotech Co., Ltd.**

Registered address: **OLABO Intelligent Manufacturing Industrial Park, Ancheng Town, Pingyin County, Jinan City, Shandong**

Manufacturing address: **Manufacturing address 1: North Side of Jiwang Road, Mingshui Economic Development District, Zhangqiu, Jinan City; Manufacturing address 2: OLABO Intelligent Manufacturing Industrial Park, Ancheng Town, Pingyin County, Jinan City, Shandong; Manufacturing address 3: Workshop No.33, Medical Device Industrial Park, Juancheng County, Heze City, Shandong Province; Manufacturing address 4: 5-101, Biobase Industrial Park, North Side of Jiwang Road, Mingshui Economic Development District, Zhangqiu, Jinan City**

Operates a Quality Management System which complies with the requirements of:

**GB/T 42061-2022 idt ISO 13485:2016**

For the following scope:

**See Annex.**

Date of issue: **June 14, 2025**

Date of expiry: **June 13, 2028**

General manager:

**BEIJING HUA GUANG CERTIFICATION  
OF MEDICAL DEVICES CO., LTD.**





**Annex:**

The design, development, manufacture, distribution and service of Biological Safety Cabinet, Laminar Flow Cabinet, Biological Isolation Chamber, Air Purifier, Laminar Flow Bed, Semi-Automated External Defibrillator, Fume Hood, PCR Cabinet, Dispensing Booth, Rapid Drug Delivery System, Medicine Dispensing Rack, Intelligent Injection Cabinet, Intelligent Medicine Distributing Machine, Vial Peeling Machine, Controlled Drugs Management Machine, Pathology Workstation, Laminar Flow Pathology Workstation, Clean Gas Type Medicine Storage Cabinet, Tissue Flotation Water Bath, Slide Dryer (Hot Plate), Tissue Flotation Water Bath & Slider Dryer (Manufacturing address 1).

The design, development, manufacture, distribution and service of Biological Safety Cabinet, Laminar Flow Cabinet, Centrifuge, Freeze Dryer, Fume Hood (Manufacturing address 2).

The design, development, manufacture, distribution and service of Freezer, Laboratory Refrigerator, Blood Bank Refrigerator (Manufacturing address 3).

The design, development, manufacture, distribution and service of Microtome, Automated Tissue Stainer, Automated Tissue Processor, Tissue Embedding Center, Tissue Cooling Center, Electrophoresis Apparatus (Manufacturing address 4).

**BEIJING HUA GUANG CERTIFICATION  
OF MEDICAL DEVICES CO., LTD.**



# BIOBASE

Biobase Bioland Co., Ltd.  
ADD: C404-A, Xing'an Community, Jinan, Shandong, China

## DECLARATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully

2014/35/EU Low Voltage Directive and 2014/30/EU Electromagnetic Compatibility Directive have been taken as reference for these processes

Company Name: **Biobase Bioland Co., Ltd.**  
C404-A, Xing'an Community, Jinan, Shandong, China

Brand: **BIOBASE**

Related Directives and Annex: **2014/35/EU Low Voltage Directive (LVD)**  
**2014/30/EU Electromagnetic Compatibility (EMC)**

Related Standards: **EN 61010-1:2010/A1:2019** (Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements)  
**EN IEC 61326-1:2021** (Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements)

Product(s): **Hotplate Magnetic Stirrer**

Type(s)/Model(s): **MS-H280-Pro; MS-H-S; MS-H-Prot; MS7-H550-S; MS7-H550-Pro; X85-2S; X85-2; SH05-3G; MYP11-2A; MYP11-2; BS-4HC; BS-4H; BS-3H;BS-2H**

Classification: **Laboratory Equipment**

Examination Period: **June 7, 2024**

Date of Expiry: **June 6, 2029**

Review Result: **We, Biobase Bioland Co., Ltd., declare that during the self-testing and performance evaluation, no Non-compliance according to the requirements of the Low Voltage Directive 2014/35/EU and Electromagnetic Compatibility Directive 2014/30/EU was detected.**

Year of DOC marking: **2024**

*For and on behalf of*  
**Biobase Bioland Co., Ltd.**

RA Specialist: *Roxanne Yan*

Document No: BKSD-R24060702  
*Authorized Signature(s)*





Registration No. 04725Q10429R3M

## CERTIFICATE OF QUALITY MANAGEMENT SYSTEM

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**Jinan Biobase Biotech Co., Ltd.**

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Manufacturing address: **Manufacturing address 1: North Side of Jiwang Road, Mingshui Economic Development District, Zhangqiu, Jinan City; Manufacturing address 2: OLABO Intelligent Manufacturing Industrial Park, Ancheng Town, Pingyin County, Jinan City, Shandong; Manufacturing address 3: Workshop No.33, Medical Device Industrial Park, Juancheng County, Heze City, Shandong Province; Manufacturing address 4: 5-101, Biobase Industrial Park, North Side of Jiwang Road, Mingshui Economic Development District, Zhangqiu, Jinan City**

Operates a Quality Management System which complies with the requirements of:

**GB/T 19001-2016 idt ISO 9001:2015**

For the following scope:

**See Annex.**

Date of issue: **June 14, 2025**

Date of expiry: **June 13, 2028**

General manager:

**BEIJING HUA GUANG CERTIFICATION  
OF MEDICAL DEVICES CO., LTD.**



中国认可  
国际互认  
管理体系  
MANAGEMENT SYSTEM  
CNAS C047-M



**Annex:**

The design, development, manufacture, distribution and service of Biological Safety Cabinet, Laminar Flow Cabinet, Biological Isolation Chamber, Air Purifier, Laminar Flow Bed, Semi-Automated External Defibrillator, Fume Hood, PCR Cabinet, Dispensing Booth, Rapid Drug Delivery System, Medicine Dispensing Rack, Intelligent Injection Cabinet, Intelligent Medicine Distributing Machine, Vial Peeling Machine, Controlled Drugs Management Machine, Pathology Workstation, Laminar Flow Pathology Workstation, Clean Gas Type Medicine Storage Cabinet, Tissue Flotation Water Bath, Slide Dryer (Hot Plate), Tissue Flotation Water Bath & Slider Dryer, Semi Automatic Kjeldahl Nitrogen Analyzer, Fully-automatic Kjeldahl Nitrogen Analyzer, Graphite Digester, Heavy Metal Digester, Automatic Digestion Units, Fat Analyzer, Automatic Intelligent Distillation Apparatus, Microbial Limit Tester, Automatic Micro Liquid Dispenser, UV-VIS Spectrophotometer, Animal Cage Changing Station, Animal Litter Workstation (Manufacturing address 1).

The design, development, manufacture, distribution and service of Biological Safety Cabinet, Laminar Flow Cabinet, Centrifuge, Freeze Dryer, Fume Hood (Manufacturing address 2).

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管理体系  
MANAGEMENT SYSTEM  
CNAS C047-M