

# BG-Qspin™7000rpm Microcentrifuge

## Instruction Manual



Executive Standard: YY/T 0657-2008

Product Record: Jingshun Machinery Equipment 20140001

Production Record: Jingshun Food and Drug Administration Production Equipment 20140001

**BEIJING BAYGENE BIOTECH COMPANY LIMITE**

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### CAUTION !

Before starting the microcentrifuge for the first time, please read this instruction manual carefully.

This manual contains important information, safeguards, and operating instructions.

When the instrument is not in use, turn the instrument switch off and disconnect from the power source. Before connecting the power cord, check that the instrument switch is off. Do not use when the humidity is greater than 95%, otherwise there may be a short circuit inside, which will cause the instrument to burn out! When the power is moved from the high temperature room to the low temperature room, it can be used immediately; but when moving from the low temperature room to the high temperature room, please use it for 2 hours. For your safety, please use the supplied power cord. In addition, please check the power cord for loose connections, broken rubber, corroded wires, and broken wires to avoid harm to the human body during use. The instrument is intended for use only for the purposes described in this manual. Do not continue to use this product if the wire or instrument is damaged. Please disconnect the power when moving the product. If there is abnormal sound when the instrument is running, please disconnect the power immediately and contact our company or local office. Do not open the repair!

Note: The company is not responsible for any consequences caused by not following the instructions!

1. Do not move the centrifuge while the centrifuge is running. Do not open the door.
2. The benchtop placed on the centrifuge should be firm and flat, and the bottom should be in contact with the table top and evenly stressed to avoid vibration.
3. Centrifuge tubes should be placed symmetrically in equal amounts. If large vibrations occur during operation, stop the inspection at this time.
4. If the centrifuge tube is broken during operation, it will cause large vibration and should be stopped immediately

# Chapter 1 Product Introduction

## 1.1 Introduction

BG-Qspin™ 7000rpm is a desktop micro-centrifuge, which is mainly used for rapid separation of small sample at normal temperature. It is an ideal experimental instrument for research institutes and major hospitals.

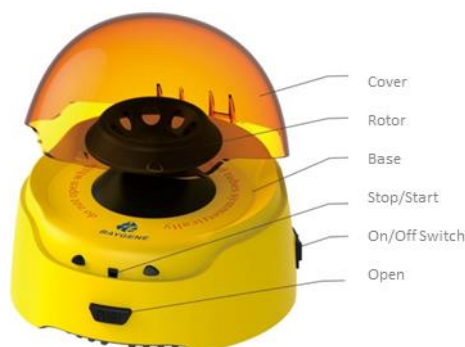
Features:

- \*Using a US brushless maintenance-free motor and carbon fiber rotor.
- \*Adopting advanced wide voltage technology, the speed is not affected by voltage fluctuations, and the speed is high.
- \* Silent technology, ultra-low noise operation.
- \*The cover is activated and the maximum speed is reached within 5s; the cover is stopped to prevent the sample from flying out.
- \*With 2 rotors, 8×2 ml/ 1.5ml/0.5ml/0.2ml and 4-8x0.2ml PCR strip
- \* Easy to use, novel in appearance, simple and beautiful.

## 1.2 Structural Composition

The BG-Qspin™ 7000rpm consists of a main unit and accessories. Schematic diagram of the host structure (as shown on the right)

When you receive the instrument, please check the box for shipping damage. Serious injury may result in damage to the internal equipment. If the instrument is damaged, contact your local dealer. Packing List:



BG-Qspin™7000rpm				1
8×2ml Tube Rotor	1	4-8x0.2ml Tube Rotor	1	
0.5ml adapters	8	0.2ml adapters	8	
Allen wrench	1	power cable	1	
User manual	1	Certificate	1	
Warranty Card	1			

## 1.3 Technical Index

BG-Qspin™7000rpm Technical Index:

Speed	7000rpm
Max speed	2600 g
Max capacity	8×2 ml/ 1.5ml/0.5ml/0.2ml

	4-8×0.2ml (8 × Tube Rotor)
Power supply	AC100-220V 50Hz 50W
Max noise level	< 47 dB (A)
Dimensions (H x W x	178x170x122mm
Weight	0.9 kg

## Chapter 2 Operation

### 1、Rotor installation and removal:

The instrument provides two interchangeable rotors that can be easily replaced with the supplied 1.5mm Allen key.

#### 1) To remove rotor:

Insert the Allen key into the set screw at the root of the rotor. After rotating the right hand counterclockwise for half a turn, hold the rubber sleeve (electrode end) with one hand and two fingers, and hold the rotor with the other hand.

Note: Do not swing when pulling up the rotor, so as not to damage the inner hole of the rotor and the motor shaft.

#### 2) To install the rotor:

Put the rotor that needs to be replaced into the motor shaft, press the rotary head in place with both hands, and turn the set screw with the right hand clockwise to turn the set screw to lock the rotor.

Note: The force should be moderate when tightening, and the force should not be too large to avoid the screw slip or the eccentricity of the rotor.

### 2、Centrifuge:

Before using the machine, make sure the power cord is plugged in and the switch is in the “0” position. After closing the lid, press the top of the lid slightly, and hear the light and crisp sound of “Pa”, indicating that the centrifuge cover has been securely fastened, and the power switch on the right side of the instrument is turned to the “1” position, and the instrument starts to run. To stop the operation, turn the power switch to “0” position. After the motor stops rotating, press the cover button again, and the centrifuge cover will pop up.

## Chapter 3 Trouble Shooting

Trouble	Possible Cause	Solution
Not working	Cord Loose	Check Cord
	Power cord socket without electricity supply	Make sure the power supply is working properly
	Front ON/OFF switch	Press front ON/OFF switch

	Lid not closed	Close Lid
	Fuse burned	Please consult a technician for repair and replacement.
Noise is loud or severe vibration after starting up	The instrument is not placed on a level, solid platform	Place the instrument on a level, solid platform
	The rotor is not installed horizontally, the installation is not in place, or the locking screw is not locked.	Correctly install the rotor according to the instructions
	Tubes are not symmetrically distributed	Symmetrical placement of tubes
	The amount of sample in the placed test tube is not consistent	The amount of sample placed in the test tube should be balanced
	The test tube is not covered, and some of the sample is thrown out, causing the rotor to be unbalanced.	Check if the test tube is covered before centrifugation
	Using unqualified test tubes, the test tube rupture causes the rotor to be unbalanced	Use qualified test tubes
	Broken or partially broken head	Replace the rotor
	Mixed test tubes of various specifications	Use the same size test tube
Rotating head speed is low or unstable	Excessive sample weight leads to overload	Each centrifuge tube does not weigh more than 3.0g
	Motor aging	Please contact the technician for repair and replacement.

After the above centralized faults are eliminated, the instrument still cannot work normally. Please contact the company or the repair station designated by the company directly.

## Chapter 4 Maintenance

1. When using the instrument, the sample volume of the centrifuge tube must be the same, and the weight of each centrifuge tube should not exceed 3.0g. The centrifuge tubes should be placed symmetrically. The centrifuge tube cover must be covered to prevent liquid spillage and contamination of the centrifuge chamber.
2. After the instrument is used, clean the surface of the instrument with a non-corrosive detergent to ensure that all parts of the instrument are completely dry before running the instrument.
3. When the surface of the instrument is splashed with liquid, wipe it off immediately.
4. When the instrument is not in use, please keep it in a dry and ventilated place.
5. If the noise is too loud or abnormal after starting up, stop immediately and contact the manufacturer.
6. It is not allowed to mix 2ml, 1.5ml, 0.5ml, 0.2ml and other test tubes when using 8×2ml rotor.

7. Do not immerse the instrument in a liquid or use a liquid to wet the instrument.
8. Do not run the instrument without turning your head.
9. Do not add samples to the centrifuge tube installed in the rotor to avoid corrosion of the rotor.
10. Do not touch the rotor with your hand when the rotor is not completely stopped.
11. Do not centrifuge flammable and corrosive materials
12. Use a centrifuge tube that can withstand 2600 g of centrifugal force.

## Chapter 5      Transport and Storage

1. Do not place heavy objects on the instrument during transportation or storage. When handling, please take it lightly.
2. When the instrument is not in use, please clean the surface and store it in a dry and ventilated place. Room temperature is greater than 0 ° C and less than 40 ° C.

## Chapter 6      Warranty

- 1) The product come with one-year machine warranty free of charge from the date of sold and all-life services.
- 2) This warranty free of charge shall not apply to any product that has been subjected to any following situation. We provide fee-based services for these cases.
  - a. Certificates, warranty cards and invoices cannot be presented.
  - b. Altered invoice.
  - c. Damage caused by accidental factors or disaster; Improper operation and operate not according to the instruction manual.
  - d. Damage caused by self-repair
  - e. Out of the expiration date, while it can still be used after repair.

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