

**BIOBASE<sup>®</sup>**

# **Maintenance Manual**

**Table-type Low Speed Refrigerated Centrifuge**

**BKC-TLSERIESIV**

**BIOBASE GROUP**

**Version 2021.04**

## **Preface**

Thank you for purchasing BIOBASE Refrigerated Centrifuge

Using object

This manual will show you how to perform preventive maintenance the instrument and software.

Before using the product, please carefully read this manual.

Keep this manual in a safe place for easy reference. If you do not follow the precautions described in this manual, we will not guarantee the maintenance.

# Instrument Maintenance

## 1. Cleaning and Purification

If hazardous substances are spilled or enter the device, users have the responsibility for proper purification.

Users should perform cleaning and purification in accordance with the methods described in the



Manual, to ensure that the equipment is free of damage; The use of improper cleaning agents and cleaning procedures incorrect errors can damage the centrifuge and components internal.

### Process

1. Turn off the power switch and unplug the power cord before cleaning or maintaining the centrifuge

**Note:** The contents of clean operation and maintenance on a regular basis (or based on the use of) main against the centrifuge casing, cavity, rotor clearance and the use of containers, etc...; This is to avoid any contaminants remaining in the above, which can cause corrosion of components and contamination environmental.

Do not use organic solvents because they can break down lubricants inside the motor bearing. During the cleaning process, do not expose liquid, especially organic solvents, to the spindle motor carrier and bearing ball inside.

## 2. Steam sterilizer

The life expectancy of the annex is related to the number of sterilization time and use, if the rotor and separation container have clear corrosion and damage, please let to use immediately.

## 3. Maintenance

1. The rotor can not have a collision with the tip objects, in the extraction and disassembly should avoid shock, it is necessary to avoid scratches or injuries that may cause cracks in the rotor in use.
2. Periodically inspect the rotor components (especially the one that is at the bottom of the tube hole) to check for corrosion points, grooves, small cracks, if found in any of the cases, please stop using the rotor and associate it with the manufacturer. For rotor demolition, grab the rotor and lift it vertically. No booties or shake.

3. Under normal circumstances, the rotor should be washed once a week, if it is from the separation of corrosive salts or other samples, and should be cleaned immediately after use. If the division of samples in use is found that he, baptist or drip in the rotor, it must be cleaned immediately and partially dried.
4. When washing the rotor, use a neutral detergent, damp cotton cloth or a sponge to clean, and then wash off the detergent with distilled water. Do not sprinkle or spray water on the rotor, as the liquid could stay somewhere and cause corrosion. The inversion and drying are allowed after washing.
5. Use the cloth or tweezers to remove the remaining debris inside the centrifugal
6. The motor shaft and the rotor shaft hole to connect the site must be painted with fat

**7. Maintenance of rotor motor steps:**

- a. Open the power switch, until the self test is finished;
- b. Press the to open the door, open the lid of the centrifuge door; Use a specific tool to remove the rotor, screw in the loose locking sets and remove rotor, clean locking sets. NOTE: clockwise to adjust the lock sets, counterclockwise to release the lock sets blocking;
- c. Clean the motor cone part of the rotor, do not leave parts debris, can be added an adequate amount of lubricating oil or paper.

**8. When removing the mask from the machine at the front, it is important to disconnect power first and unplug the power cord connected to the wallback of the machine. Live operation is not allowed to avoid a shock electrical or damage to the machine.**

Note: This operation can only be performed by specially trained maintenance personnel. trained by the manufacturer.

9. The machine can only use equipment accessories provided by the maker
10. Ensure that the power supply to the centrifuge is cut off Laboratory electrical equipment: general safety requirements;

**11. Transport, storage**

The machine is a precision instrument and equipment, in the process of transportation and storage, please note that it should be avoided moisture, shock, in position landscape or rewind.

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