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> [SCIOGEX SCI-506 Low Speed Laboratory Centrifuge Machine User Manual](#)

## Scilogex SCI506

# SCIOGEX SCI-506 Low Speed Laboratory Centrifuge Machine User Manual

Model: SCI-506

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of the SCIOGEX SCI-506 Low Speed Laboratory Centrifuge. The SCI-506 is a benchtop centrifuge designed for various laboratory applications, including PRF (Platelet-Rich Fibrin) and PRP (Platelet-Rich Plasma) processing. It features flexible speed settings, an LCD display, and a brushless DC motor for reliable performance. Please read this manual thoroughly before operating the device.



Figure 1: SCILOGEX SCI-506 Low Speed Laboratory Centrifuge with blue lid and control panel.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury and damage to the equipment.

- Ensure the centrifuge is placed on a stable, level surface away from direct sunlight, heat sources, and excessive moisture.
- Do not operate the centrifuge if the lid is open or not properly secured. The automatic lid-lock mechanism is designed for safety.
- Always balance tubes of equal weight and volume opposite each other in the rotor to prevent vibration and potential damage.
- Use only tubes and adapters approved for use with this centrifuge.

- Do not exceed the maximum speed or capacity specified for the rotor and tubes.
- In case of spillage, immediately clean and disinfect the centrifuge and rotor according to laboratory safety protocols.
- Disconnect the power cord before cleaning or maintenance.
- Do not attempt to open or repair the centrifuge yourself. Refer servicing to qualified personnel.

### 3. PRODUCT OVERVIEW

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#### 3.1 Key Features

- **Flexible Speed Settings:** Rotor speed can be displayed in RPM or G-force.
- **Memory Programs:** Two memory programs for frequently used settings.
- **Deceleration Speeds:** Two deceleration speeds for optimized separation.
- **PRF & PRP Compatibility:** Designed for consistent and efficient separation in PRF and PRP applications.
- **LCD Display:** Clear display for speed and time.
- **Safety Lock:** Automatic lid-lock release for enhanced operator safety.
- **Brushless DC Motor:** Maintenance-free motor for long-lasting performance.

#### 3.2 Components

The SCILOGEX SCI-506 centrifuge consists of the main unit, rotor, and power cord.



Figure 2: Close-up of the SCI-506 control panel, showing the LCD screen, speed/time adjustment knob, and program buttons.

The control panel (Figure 2) features an LCD screen displaying current speed and time, a rotary knob for setting parameters, and buttons for program selection and start/stop functions. The "DOOR" indicator illuminates when the lid is open.



Figure 3: The rotor of the SCI-506 centrifuge, designed to hold 6 tubes with adapters.

The rotor (Figure 3) is designed to accommodate 6 tubes, typically 15mL, 10mL, 7mL, or 5mL, using appropriate adapters.

## 4. SETUP

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1. **Unpacking:** Carefully remove the centrifuge from its packaging. Retain packaging materials for future transport or storage.
2. **Placement:** Place the centrifuge on a sturdy, level, and vibration-free workbench. Ensure adequate clearance (at least 10 cm) around the unit for proper ventilation.
3. **Power Connection:** Connect the power cord to the centrifuge and then to a grounded electrical outlet. Ensure the voltage matches the specifications on the unit's rating label.
4. **Rotor Installation:** Ensure the rotor is correctly seated on the motor shaft. Secure it according to the instructions provided with the rotor.
5. **Initial Check:** Before first use, perform a visual inspection for any signs of damage. Close the lid and ensure it locks securely.

## 5. OPERATING INSTRUCTIONS

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### 1. Loading Samples:

- Open the centrifuge lid.
- Insert tubes containing samples into the rotor. Always balance the rotor by placing tubes of equal weight and volume directly opposite each other. Unbalanced loads can cause excessive vibration and damage.
- Ensure tubes are properly seated in their adapters and the adapters are correctly placed in the rotor.

2. **Closing the Lid:** Close the centrifuge lid firmly until the automatic lock engages. The "DOOR" indicator on the display should turn off.

### 3. Setting Parameters:

- Turn the rotary knob to adjust the desired speed (RPM or G-force) and time. The LCD will display the current settings.
- Press the "P1" or "P2" buttons to recall or save frequently used programs. Refer to the detailed programming section in the full manual for saving procedures.

4. **Starting Centrifugation:** Press the "START/STOP" button to begin the centrifugation cycle. The centrifuge will accelerate to the set speed.
5. **Monitoring Operation:** Monitor the centrifuge during operation. If unusual noise or vibration occurs, press "START/STOP" immediately to halt the cycle.
6. **Stopping Centrifugation:**
  - The centrifuge will automatically stop when the set time expires.
  - To stop manually, press the "START/STOP" button.
  - Wait for the rotor to come to a complete stop before attempting to open the lid. The lid will automatically unlock once the rotor has stopped.
7. **Unloading Samples:** Open the lid and carefully remove the centrifuged tubes.

## 6. MAINTENANCE

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- **Cleaning:** Regularly clean the exterior of the centrifuge with a soft, damp cloth and mild detergent. Avoid abrasive cleaners or solvents.
- **Rotor Care:** Clean the rotor and adapters after each use, especially if there are spills. Use a neutral cleaning solution and rinse thoroughly. Dry completely before reinstallation.
- **Disinfection:** Disinfect the centrifuge and rotor as needed, following standard laboratory procedures and using appropriate disinfectants compatible with the materials.
- **Motor:** The SCI-506 features a maintenance-free brushless DC motor. No user maintenance is required for the motor itself.
- **Inspection:** Periodically inspect the power cord for damage and the rotor for any signs of wear or corrosion.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Centrifuge does not start	Power cord not connected; Lid not closed properly; Power switch off.	Check power connection; Ensure lid is securely closed; Turn on power switch.
Excessive vibration or noise	Unbalanced load; Damaged rotor or tubes; Centrifuge not on a level surface.	Balance tubes correctly; Inspect rotor and tubes for damage; Relocate centrifuge to a level surface.
Lid does not open after cycle	Rotor still spinning; Lid lock malfunction.	Wait for rotor to stop completely; If issue persists, contact support.
Display not working	Power issue; Internal fault.	Check power supply; Contact support if power is confirmed.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact SCIOGEX customer support.

## 8. SPECIFICATIONS

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<b>Model Number</b>	SCI-506
<b>Speed Range</b>	300-5000 RPM
<b>Rotor Capacity</b>	6 x 15mL/10mL/7mL/5mL tubes (with adapters)
<b>Motor Type</b>	Brushless DC Motor

<b>Display</b>	LCD
<b>Product Dimensions</b>	22 x 19 x 17 inches
<b>Item Weight</b>	19 pounds
<b>Manufacturer</b>	Scilogex

## 9. WARRANTY AND SUPPORT

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The SCILOGEX SCI-506 Low Speed Laboratory Centrifuge is backed by a **2-year manufacturer's warranty**, covering defects in materials and workmanship under normal use.

For technical assistance, warranty claims, or general inquiries, please contact SCILOGEX customer support. SCILOGEX is headquartered in Rocky Hill, CT, USA, and provides expert post-sales service and support.

You can find more information and contact details on the official SCILOGEX website or through your authorized distributor.

