

## Sartorius LH-728671

# Sartorius Proline Plus Pipette Multipack LH-728671 User Manual

## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the Sartorius Proline Plus Pipette Multipack LH-728671. It covers product overview, setup, operation, maintenance, troubleshooting, and specifications. Please read this manual thoroughly before using the product to ensure proper handling and optimal performance.

## 2. PRODUCT OVERVIEW

The Sartorius Proline Plus Pipette Multipack LH-728671 is designed for precise liquid handling in laboratory environments. This multipack includes a selection of Proline Plus single-channel mechanical pipettes, compatible Optifit tip racks, and a linear stand for convenient storage.

### 2.1 Components Included:

- Proline Plus Pipettes:
  - One 2-20 µl Proline Plus Pipette
  - One 20-200 µl Proline Plus Pipette
  - One 100-1000 µl Proline Plus Pipette
- Optifit Tip Racks:
  - Compatible tip racks for 0.5-200 µl pipettes
  - Compatible tip racks for 10-1000 µl pipettes
- x3 Linear Stand & Pipette Holder



Figure 1: Overview of the Sartorius Proline Plus Pipette Multipack components, including the linear stand, three pipettes, and various Optifit tip racks.

## 3. SETUP

### 3.1 Assembling the Linear Stand

1. Unpack all components of the linear stand.
2. Connect the base parts securely. Ensure all connections are firm.
3. Place the assembled stand on a stable, level surface.

### 3.2 Placing Pipettes in the Stand

- Gently insert each Proline Plus pipette into the designated slots on the linear stand.
- Ensure pipettes are securely seated to prevent accidental falls.

### 3.3 Loading Tip Racks

- Open the Optifit tip rack packaging.
- Place the appropriate tip rack near your workspace for easy access during pipetting.
- Ensure the tip rack matches the volume range of the pipette being used.

## 4. OPERATING INSTRUCTIONS

---

### 4.1 Volume Adjustment

1. Turn the volume adjustment knob (located at the top of the pipette) clockwise to decrease the volume and counter-clockwise to increase it.
2. Set the desired volume, ensuring the display shows the correct value.
3. Do not exceed the maximum or go below the minimum volume range of the pipette.

### 4.2 Attaching a Tip

- Press the pipette nozzle firmly into a tip in the tip rack.
- Ensure the tip is securely attached and forms an airtight seal.

### 4.3 Aspirating Liquid

1. Press the operating button down to the first stop.
2. Immerse the tip into the liquid to the appropriate depth (typically 1-2 mm for small volumes, 3-6 mm for larger volumes).
3. Slowly release the operating button to aspirate the liquid. Wait a moment for the liquid to enter the tip completely.

### 4.4 Dispensing Liquid

1. Place the tip against the inner wall of the receiving vessel at a slight angle.
2. Press the operating button down slowly to the first stop to dispense the liquid.
3. Continue pressing the button to the second stop (blow-out) to expel any residual liquid from the tip.
4. Keep the button pressed and withdraw the pipette from the vessel.

### 4.5 Tip Ejection

- Point the pipette into a waste container.
- Press the tip ejector button to discard the used tip.

## 5. MAINTENANCE

---

### 5.1 Cleaning

- Regularly wipe the exterior of the pipettes with a soft cloth dampened with mild detergent or 70% ethanol.
- Do not immerse the entire pipette in liquid.
- For internal cleaning or decontamination, refer to the detailed instructions provided with individual pipette models or contact Sartorius service.

### 5.2 Calibration

- Pipettes should be calibrated regularly according to laboratory standards and regulatory requirements.
- Calibration should be performed by qualified personnel or an authorized service provider.

### 5.3 Storage

- Store pipettes vertically in the linear stand when not in use to prevent contamination and damage.
- Store in a clean, dry environment, away from direct sunlight and extreme temperatures.

## 6. TROUBLESHOOTING

---

### 6.1 Inaccurate Pipetting

- **Possible Cause:** Improper tip attachment. **Solution:** Ensure tip is securely and airtightly attached.
- **Possible Cause:** Incorrect pipetting technique. **Solution:** Review operating instructions for aspiration and dispensing.
- **Possible Cause:** Pipette requires calibration. **Solution:** Arrange for professional calibration.
- **Possible Cause:** Damaged tip cone or piston. **Solution:** Contact Sartorius service for inspection and repair.

### 6.2 Leaking Tip

- **Possible Cause:** Tip not properly seated. **Solution:** Re-attach tip firmly.
- **Possible Cause:** Incompatible tip used. **Solution:** Use only Sartorius Optifit tips.
- **Possible Cause:** Damaged O-ring or tip cone. **Solution:** Contact Sartorius service for inspection and repair.

### 6.3 Operating Button Sticking

- **Possible Cause:** Contamination. **Solution:** Clean the pipette exterior. If internal, contact service.
- **Possible Cause:** Mechanical issue. **Solution:** Contact Sartorius service.

## 7. SPECIFICATIONS







---

- **Model:** LH-728671
- **Brand:** Sartorius
- **Pipette Types:** Proline Plus Single-Channel Mechanical Pipettes
- **Included Pipette Volumes:** 2-20 µl, 20-200 µl, 100-1000 µl
- **Compatible Tip Racks:** Optifit Tip Racks for 0.5-200 µl and 10-1000 µl
- **Accessories:** x3 Linear Stand & Pipette Holder
- **Package Dimensions:** 6 x 6 x 6 inches
- **Package Weight:** 2 Pounds

## 8. WARRANTY AND SUPPORT

---

For detailed warranty information, please refer to the documentation included with your product or visit the official Sartorius website. For technical support, service, or spare parts, please contact your local Sartorius representative or authorized dealer. Provide your product model number (LH-728671) and serial number when requesting support.

 <p>Cleaning and Decontamination Guide for Sartorius Pipettes</p> <p>SARTORIUS</p>	<p><a href="#">Sartorius Pipette Cleaning and Decontamination Guide: Best Practices and Procedures</a></p> <p>A comprehensive guide from Sartorius detailing essential cleaning, decontamination, and maintenance procedures for their range of pipettes, including Tacta®, mLine®, Proline®, and Picus® models. Covers daily and periodic cleaning, application-specific methods, decontamination agents, autoclaving, and parts identification to ensure optimal performance and longevity of laboratory instruments.</p>
 <p>Proline® Plus pipette</p> <p>User Manual Bedienungsanleitung Mode d'emploi Manual Usuario Istruzioni d'impiego Инструкция пользователя</p>	<p><a href="#">Sartorius Proline® Plus Pipette User Manual</a></p> <p>Comprehensive user manual for the Sartorius Proline® Plus pipette, detailing its features, operation, maintenance, specifications, and troubleshooting for laboratory use.</p>
 <p>SARTORIUS</p> <p>Practical Selection Guide Hints to Consider When Choosing a Mechanical Pipette</p>	<p><a href="#">Sartorius Mechanical Pipette Selection Guide: Accuracy, Precision, and Ergonomics</a></p> <p>A comprehensive guide from Sartorius on selecting the right mechanical pipette, covering key factors like accuracy, precision, ergonomics, and types of pipettes.</p>
	<p><a href="#">Sartorius Picus &amp; Picus Nxt Electronic Pipettes Quick Start Guide</a></p> <p>A quick start guide for operating Sartorius Picus and Picus Nxt electronic pipettes, covering getting started, setup options, and operation.</p>
 <p>Sartacon® Sartacon® Slice Sartacon® Slice 200 Cassettes</p> <p>SARTORIUS</p>	<p><a href="#">Sartocon® Sartocon® Slice Sartocon® Slice 200 Cassettes: User Manual &amp; Instructions</a></p> <p>User manual detailing installation, operation, cleaning, sterilization, and storage for Sartorius Sartocon®, Sartocon® Slice, and Sartocon® Slice 200 filtration cassettes. Includes technical specifications and safety guidelines for bioprocessing applications.</p>
 <p>Complete Catalog Laboratory Mechatronics</p> <p>SARTORIUS</p>	<p><a href="#">Sartorius Complete Catalog: Laboratory Mechatronics and Weighing Solutions</a></p> <p>Explore the comprehensive Sartorius catalog featuring advanced laboratory mechatronics, precision weighing instruments, moisture analyzers, electroanalysis equipment, and mass metrology solutions for scientific and industrial applications.</p>

