

# Proline® Plus Mechanical Pipette



turning science into solutions



[www.agapilabsolutions.com](http://www.agapilabsolutions.com)

**Contact Us:**

Phone 1 (267) 397-3345

E-mail [customerservice@agapilabsolutions.com](mailto:customerservice@agapilabsolutions.com)

# Proline® Plus mechanical pipettes

## Dependable durability

Sartorius Biohit's mechanical pipette family Proline Plus is designed to offer comfort and quality in every day manual pipetting. While it shares many of the excellent features of mLINE, it has a personal design and a robust feel for heavier use. In addition, it has the widest pipette range, including fixed volume pipettes, for when volumes need to be ready-set to avoid errors. Proline Plus pipettes are an excellent choice for both experienced laboratory professionals and students.

- The widest range of pipettes for various users and applications
- Ergonomic design with light pipetting forces, comfortable handle and finger support for reduced risk of strain injuries
- Minimized risk of contamination with Safe-Cone Filters and full autoclavability
- Highly durable with strengthened structure also for heavier use



### Light pipetting forces & ergonomic design

- Prevents repetitive strain injury (RSI)

### Widest range of pipettes, both adjustable and fixed volume, available

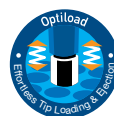
- adjustable volume pipettes for professionals
- fixed volume pipettes for specific applications to avoid volume errors



Fully autoclavable

### Fully autoclavable without disassembling

- Easy to steam sterilize, improves purity



### Optiload tip loading mechanism in multichannel models

- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone
- Makes tip ejection light and easy

### Safe-Cone Filters available for models > 10 µl

- Contamination free pipetting



## Features and benefits

**Volume setting with color-coded click stop**  
- Easy to use volume setting  
- Eases correct tip volume selection through matching color code

**Ergonomic finger support**  
- No need to squeeze the pipette during pipetting, reduces the risk of RSI

**Thermal insulation of internal components**  
- Improves accuracy

**Large numbers used on volume display**  
- Quick and easy-to-read volume minimizes risk of volume setting errors

**Volume noted on display**  
- Eases correct tip volume selection

**Materials have high chemical and UV-resistance**  
- Highly durable and long lasting pipette

**Only three parts to disassemble**  
- The easiest pipette to clean and maintain, improves purity

**Easy to use "do-it-yourself" calibration**  
- Quick re-calibration possible for different liquids





### **Widest range of pipettes**

The Proline Plus family includes the widest range of pipettes, from 3 µl/5µl to 10 ml, as both adjustable and fixed volume devices. The fixed volume pipettes are particularly useful in student laboratories or in any laboratory where the application requires a constant volume. It is also ready-set to avoid errors.



### **Ergonomic design**

A comfortable handle and ergonomic finger support enable effortless pipetting. There is no need to squeeze the handle during pipetting, thereby reducing the risk of RSI.



### **Perfect tip sealing with Optiload tip loading mechanism in multichannel pipettes**

All Proline Plus multichannel pipettes are equipped with spring loaded tip cones – the Optiload mechanism developed by Biohit, which secures even tip sealing and simultaneously allows tips to be loaded and ejected with minimum force. This is a particular advantage in multichannel models, where tip loading and ejecting generally require more force. Using less force reduces the risk of hand injuries.



### **Prevent contamination with Safe-Cone Filters**

Replaceable Safe-Cone Filters act as a barrier, preventing aerosols or fluids from reaching the internal components of the pipette. Safe-Cone Filters are available for all Proline Plus models greater than 10 µl. These filters must be replaced regularly, and in every case of overaspiration.



### **Maintenance and calibration made easy**

No opening tools are needed when cleaning and maintaining Proline Plus pipettes, and only three parts need to be cleaned. These pipettes can be easily calibrated using the tool provided with them.

**Proline® Plus - Ordering details**

Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Filters		Optifit Tips (µl)	SafetySpace™ Filter Tips (µl)
							Standard	Plus		
728010	1	● 0.1-3	0.002	3	1.30	0.80	-	-	10	10
				1.5	2.40	1.60				
				0.3	10.00	6.00				
728020	1	● 0.5-10	0.01	10	1.00	0.60	-	-	10	10
				5	1.50	1.00				
				1	2.50	1.50				
728030	1	● 2-20	0.02	20	0.90	0.40	721014	-	200	20
				10	1.20	1.00				
				2	3.00	2.00				
728040	1	● 5-50	0.10	50	1.00	0.30	721008	721018	200	120
				25	1.40	0.50				
				5	3.00	1.50				
728050	1	● 10-100	0.10	100	0.80	0.15	721008	721018	200	120
				50	1.00	0.40				
				10	2.00	1.00				
728060	1	● 20-200	0.20	200	0.60	0.15	721007	721017	200	200
				100	0.80	0.30				
				20	2.00	0.80				
728070	1	● 100-1000	1.00	1000	0.60	0.20	721006	721016	1000	1000
				500	0.60	0.20				
				100	1.00	0.40				
728080	1	● 500-5000	10.0	5000	0.50	0.20	721005	721015	5000	-
				2500	0.60	0.30				
				500	2.00	0.60				
728090	1	● 1-10 ml	20.0	10000	0.60	0.20	721005	721015	10 000	-
				5000	1.20	0.30				
				1000	3.00	0.60				
728120	8	● 0.5-10	0.01	10	1.50	1.00	-	-	10	10
				5	2.50	2.50				
				1	4.00	4.00				
728130	8	● 10-100	0.10	100	0.70	0.25	721008	721018	200	120
				50	1.00	0.70				
				10	3.00	1.50				
728140	8	● 30-300	0.20	300	0.60	0.25	721007	721017	350	300
				150	1.00	0.50				
				30	2.00	1.00				
728220	12	● 0.5-10	0.01	10	1.50	1.00	-	-	10	10
				5	2.50	2.50				
				1	4.00	4.00				
728230	12	● 10-100	0.10	100	0.70	0.25	721008	721018	200	120
				50	1.00	0.70				
				10	3.00	1.50				
728240	12	● 30-300	0.20	300	0.60	0.25	721007	721017	350	300
				150	1.00	0.50				
				30	2.00	1.00				

### Proline® Plus FIXED Volume, single-channel – Ordering details

Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Filters		Optifit Tips (µl)	SafetySpace™ Filter Tips (µl)
							Standard	Plus		
728515	1	● 5	-	5	1.30	1.20	-	-	10	10
728520	1	● 10	-	10	0.80	0.80	-	-	10	10
728530	1	● 20	-	20	0.60	0.50	721014	-	200	20
728535	1	● 25	-	25	0.50	0.30	721008	721018	200	120
728545	1	● 50	-	50	0.50	0.30	721008	721018	200	120
728550	1	● 100	-	100	0.50	0.30	721008	721018	200 350	120
728560	1	● 200	-	200	0.40	0.20	721007	721017	200 350	200 300
728565	1	● 250	-	250	0.40	0.20	721006	721016	1000	500 1000
728567	1	● 500	-	500	0.30	0.20	721006	721016	1000	500 1000
728570	1	● 1000	-	1000	0.30	0.20	721006	721016	1000	1000
728575	1	● 2000	-	2000	0.30	0.15	721005	721015	5000	-
728580	1	● 5000	-	5000	0.30	0.15	721005	721015	5000	-
728590	1	● 10 ml	-	10000	0.60	0.20	721005	721015	10 000	-

### Pipette stands and accessories – Ordering details

Cat. No.	Item
725600	Carousel Stand for six pipettes
725610	Pipette Holder for one pipette
725620	Linear Stand
726203	Calibration Tool/Tube opener



Calibration Tool

Carousel Stand



Pipette Holder

Linear Stand

## **Proline® Plus Starter Kit**

Proline Plus Starter Kit offers an opportunity to test and get started with Proline Plus. You can choose between four Starter Kits, with two or three single-channel Proline Plus pipettes. All kits include a range of useful accessories, such as a pipette holder and a calibration tool that also acts as a tube opener, as well as the required instructions.

### **Proline® Plus Starter Kit 1 – Cat. No. 728650**

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Proline Plus 0.1-3 µl

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Proline Plus 0.5-10 µl

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Optifit Tip 0.1-10 µl, Single Tray x 2

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Pipette Holder x 2

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Calibration Tool/Tube Opener

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Literature

### **Proline® Plus Starter Kit 3 – Cat. No. 728652**

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Proline Plus 2-20 µl

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Proline Plus 20-200 µl

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Proline Plus 100-1000 µl

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Optifit Tip 0.5-200 µl, Single Tray x 2

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Optifit Tip 10-1000 µl, Single Tray

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Pipette Holder x 3

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Calibration Tool/Tube Opener

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Literature

### **Proline® Plus Starter Kit 5 – Cat. No. 728654**

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Proline Plus 0.5 - 10 µl

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Proline Plus 2 - 20 µl

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Proline Plus 20 - 200 µl

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Proline Plus 100 - 1000 µl

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Pipette Holder x 4

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Optifit Single-tray tip boxes

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Biohit Optifit Tip 0.2-10 µl, Single Tray

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Biohit Optifit Tip 0.5-200 µl, Single Tray x 2

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Biohit Optifit Tip 10-1000 µl, Single Tray

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Calibration Tool/Tube Opener

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Literature

### **Proline® Plus Starter Kit 2 – Cat. No. 728651**

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Proline Plus 0.5-10 µl

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Proline Plus 10-100 µl

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Proline Plus 100-1000 µl

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Optifit Tip 0.1-10 µl, Single Tray

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Optifit Tip 0.5-200 µl, Single Tray

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Optifit Tip 10-1000 µl, Single Tray

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Pipette Holder x 3

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Calibration Tool/Tube Opener

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Literature

### **Proline® Plus Starter Kit 4 – Cat. No. 728653**

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Proline Plus 500-5000 µl

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Proline Plus 1000-10000 µl

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Optifit Tip 100-5000 µl, Bulk

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Optifit Tip 1-10 ml, Bulk

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Pipette Holder x 2

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Calibration Tool/Tube Opener

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Literature

**Sartorius Corporation**  
5 Orville Drive, Suite 200  
Bohemia, NY 11716

Phone | 800.635.2906  
Fax | 631.254.4253

[www.sartorius.us](http://www.sartorius.us)

**Sartorius Canada**  
2179 Dunwin Drive #4  
Mississauga, Canada ON L5L 1X2

Phone +1.800.668.4234  
Fax +1.905.569.7021

[www.sartorius.com](http://www.sartorius.com)



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