



**Wolflabs**

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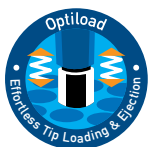
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**Proline® Plus**

Fully autoclavable



## Durable and dependable – Proline® Plus

In the new Proline Plus pipette, Biohit has combined the basic functionalities of the traditional Proline mechanical with new, state-of-the-art pipette design and technology. Particular emphasis has been put on safety, ergonomics, and efficiency in pipetting, as well as on the high quality of the device. Proline Plus pipettes cover the full volume range of 0.1µl-10ml, in both adjustable and fixed volume models.



PLUS IS MORE!



### Proline Plus – the classic Biohit Proline reborn

- Robust design
- Good UV resistance
- Excellent chemical resistance
- Small increments
- Reduced pipetting and tip ejection force
- Fully autoclavable



Fully autoclavable

Thermal insulation of the internal components ensures that the warmth of the hand does not affect the pipetting results during long pipetting series

Robust design

Good chemical & UV resistance

Fits the most commonly used lab tubes thanks to the slim tip ejector collar

Safe-Cone Filters to prevent contamination

Volume setting with click stops

Suitable for both left and right-handed users

Colour coding on display corresponds to the colour coding of tip trays

- Tips on pages 52-53
- Filters on page 56
- Stand options available on page 16
- ErgoMate on page 60
- Ergonomics on page 74
- Pipette selection guide on page 81
- Autoclaving instructions on page 84



NEW! See page 80 for details

### What's the difference?



Comparison of the pipetting forces needed. See page 81 for selection guide.

## Proline Plus Single channel Performance Specifications and Ordering Details

Cat. No.	Channels	Volume range (µl)	Increment (µl)	Test volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Filters		Tip ID
							Standard	Plus	
728010	1	0.1-3 µl	0.002	3,0 1,5 0,3	1.30 % 2.40 % 10.00 %	0.80 % 1.60 % 6.00 %	-	-	A, L, M
728020	1	0.5-10 µl	0.01	10 5 1 0,5	1.00 % 1.50 % 2.50 % 5.00 %	0.60 % 1.00 % 1.50 % 4.00 %	-	-	A, L, M
728030	1	2-20 µl	0.02	20 10 2	0.90 % 1.20 % 3.00 %	0.40 % 1.00 % 2.00 %	721014	-	C, N
728050	1	10-100 µl	0.10	100 50 10	0.80 % 1.00 % 2.00 %	0.15 % 0.40 % 1.00 %	721008	721018	C, D, O, V
728060	1	20-200 µl	0.20	200 100 20	0.60 % 0.80 % 2.00 %	0.15 % 0.30 % 0.80 %	721007	721017	C, D, P, Q
728070	1	100-1000 µl	1.00	1000 500 100	0.60 % 0.60 % 1.00 %	0.20 % 0.20 % 0.40 %	721006	721016	E, G, S
728080	1	500-5000 µl	10.0	5000 2500 500	0.50 % 0.60 % 2.00 %	0.20 % 0.30 % 0.60 %	721005	721015	J
728090	1	1-10 ml	20.0	10000 5000 2000	0.60 % 1.20 % 3.00 %	0.20 % 0.30 % 0.60 %	721005	721015	U

FINAS Accredited Calibration Certificate (ISO 17025) available for new pipettes – see page 67 for details

The specifications are type test specifications achieved under strictly controlled conditions (ISO 8655). Due to Biohit's continuous R&D, specifications may change without prior notice.



## Optiload tip loading and perfect tip sealing

All Proline Plus multichannel pipettes are equipped with unique spring loaded tip cones – the unique Optiload mechanism that:

- Allows tips to be loaded with constant force
- Enables even and safe tip sealing to the tip cones with minimum force
- Makes tip ejection light and easy
- Is an advantage in multichannel models, where even tip sealing is essential



## Proline Plus Multichannel Performance specifications and ordering details

Cat. No.	Channels	Volume range(µl)	Increment (µl)	Test volume (µl)	Inacc. (%)	Impr (%)	Safe-cone filters Standard Plus	Tip ID
728120	8	0.5-10 µl	0.01	10 5 1	1.50 % 2.50 % 4.00 %	1.00 % 2.50 % 4.00 %	- -	A, L, M
728130	8	10-100 µl	0.10	100 50 10	0.70 % 1.00 % 3.00 %	0.25 % 0.70 % 1.50 %	721008 721018	C, D, O, V
728140	8	30-300 µl	0.20	300 150 30	0.60 % 1.00 % 2.00 %	0.25 % 0.50 % 1.00 %	721007 721017	D, Q
728220	12	0.5-10 µl	0.01	10 5 1	1.50 % 2.50 % 4.00 %	1.00 % 2.50 % 4.00 %	- -	A, L, M
728230	12	10-100 µl	0.10	100 50 10	0.70 % 1.00 % 3.00 %	0.25 % 0.70 % 1.50 %	721008 721018	C, D, O, V
728240	12	30-300 µl	0.20	300 150 30	0.60 % 1.00 % 2.00 %	0.25 % 0.50 % 1.00 %	721007 721017	D, Q

The specifications are type test specifications achieved under strictly controlled conditions (ISO 8655). Due to Biohit's continuous R&D, specifications may change without prior notice.












The slim tip cone design fits also narrow laboratory tubes.



Colour coding on display corresponds to the colour coding of tip trays

A wide range of fixed volume models available

-  Tips on pages 52-53
-  Filters on page 56
-  Stand options available on page 16
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**PIPETTING ACADEMY**  
NEW! See page 80 for details



Fully autoclavable

### Proline Plus Single-Channel FIXED Volume Performance specifications and ordering details

Cat. No.	Channels	Volume range (µl)	Increment (µl)	Test volume (µl)	Inacc. (%)	Impr. (%)	Safe-cone filters		Tip ID
							Standard	Plus	
728515	1	5 µl	-	5	1.30 %	1.20 %	-	-	A, L, M
728520	1	10 µl	-	10	0.80 %	0.80 %	-	-	A, L, M
728530	1	20 µl	-	20	0.60 %	0.50 %	721014	-	C, N
728535	1	25 µl	-	25	0.50 %	0.30 %	721008	721018	C, O, V
728545	1	50 µl	-	50	0.50 %	0.30 %	721008	721018	C, O, V
728550	1	100 µl	-	100	0.50 %	0.30 %	721008	721018	C, D, O, V
728560	1	200 µl	-	200	0.40 %	0.20 %	721007	721017	C, D, P, Q
728565	1	250 µl	-	250	0.40 %	0.20 %	721006	721016	E, G, R, S
728567	1	500 µl	-	500	0.30 %	0.20 %	721006	721016	E, G, R, S
728570	1	1000 µl	-	1000	0.30 %	0.20 %	721006	721016	E, G, S
728575	1	2000 µl	-	2000	0.30 %	0.15 %	721005	721015	J
728580	1	5000 µl	-	5000	0.30 %	0.15 %	721005	721015	J
728590	1	10 ml	-	10000	0.60 %	0.20 %	721005	721015	U

The specifications are type test specifications achieved under strictly controlled conditions (ISO 8655). Due to Biohit's continuous R&D, specifications may change without prior notice.



The Proline Plus pipette should be stored in an upright position. There are several different stand options:

- Carousel stand for six pipettes
- Stylish linear stand that allows the pipette to be placed on both sides of the stand
- A handy holder that is available as an accessory

## Stands

Cat. No.	Item
725600	Biohit Carousel Stand for 6 pipettes
725610	Biohit Pipette Holder for one Proline Plus/mLINE pipette
725620	Linear Stand for all Biohit pipettes



## Prevent contamination with Safe-Cone Filters

Proline Plus features unique Safe-Cone Filters that:

- Prevent fluids and liquid vapours from reaching the internal components of the pipette
- Help you prevent contamination of your pipette and sample in your everyday work
- Prolong the pipette life-time
- Are replaceable
- Can be removed by using convenient forceps
- Are available for all models > 10 µl



## Basic calibration and maintenance made easy

- No opening tools are needed
- Only 3 parts need to be cleaned – piston, tip cone and tip ejector collar
- Calibration is easy with the tool included in the package
- Should you wish to leave it to a professional, Biohit offers complete maintenance, repair and calibration services



## Get started with Proline Plus Starter Kit!



# Proline Plus Starter Kit

Biohit 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

of the kits include many useful accessories such as a pipette holder, and a calibration tool, which also acts as a tube opener, as well as literature.

### Biohit Proline Plus Starter Kit 1 - Cat. No. 728650

- Proline Plus 0.1 - 3  $\mu$ l
- Proline Plus 0.5 - 10  $\mu$ l
- Pipette Holder x 2
- 2 single-tray tip boxes
- Calibration Tool/Tube Opener
- Literature

### Biohit Proline Plus Starter Kit 2 - Cat. No. 728651

- Proline Plus 0.5 - 10  $\mu$ l
- Proline Plus 10 - 100  $\mu$ l
- Proline Plus 100-1000  $\mu$ l
- Pipette Holder x 3
- 3 single-tray tip boxes
- Calibration Tool/Tube Opener
- Literature

### Biohit Proline Plus Starter Kit 3 - Cat. No. 728652

- Proline Plus 2 - 20  $\mu$ l
- Proline Plus 20 - 200  $\mu$ l
- Proline Plus 100 - 1000  $\mu$ l
- Pipette Holder x 3
- 3 single-tray tip boxes
- Calibration Tool/Tube Opener
- Literature

### Biohit Proline Plus Starter Kit 4 - Cat. No. 728653

- Proline Plus 500-5000  $\mu$ l
- Proline Plus 1000-10 000  $\mu$ l
- Pipette Holder x 2
- 2 bulk tip boxes
- Calibration Tool/Tube Opener
- Literature