



Wolflabs

Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax:01759 301143

sales@wolflabs.co.uk



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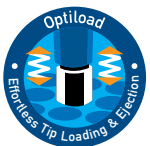
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BIOHIT

Innovating for Health

mLINE®



Fully autoclavable

CE

IVD



Effortless accuracy – meet the mLINE® family!

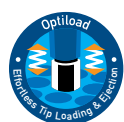
Biohit's most advanced mechanical pipette family – the mLINE – offers a unique combination of novel & patented features for manual pipetting. Excellent performance, smooth ergonomics and perfect safety makes the mLINE. It is comfortable to use, hour after hour, day after day – without the risk of strains (RSI). Enjoy your work. With mLINE pipettes you can. mLINE pipettes cover the full volume range of 0.1 µl to 10 ml.





mLINE for easy and ergonomic pipetting

- The lowest pipetting forces on the market
- Consistent results even in long pipetting series
- Light weight
- Optiload tip loading for perfect tip sealing and effortless tip ejection
- Good UV resistance
- Safe-Cone Filters protect your pipette and sample
- Recommended by Health & Safety Officers



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Fully autoclavable

What's the difference?



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






mLINE Single-Channel 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
725010	1	0.1-3 µl	0.002	3 1.5 0.3	1.30 % 2.40 % 10.00 %	0.80 % 1.60 % 6.00 %	-	-	A, L, M
725020	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
725030	1	2-20 µl	0.02	20 10 2	0.90 % 1.20 % 3.00 %	0.40 % 1.00 % 2.00 %	721014	-	C, N
725050	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
725060	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
725070	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
725080	1	500-5000 µl	10.0	5000 2500 500	0.50 % 0.60 % 2.00 %	0.20 % 0.30 % 0.60 %	721005	721015	J
725090	1	1-10ml	20.0	10000 5000 1000	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.



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mLINE Multichannel 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	
725120	8-channel	0.5-10 µl	0.01	10 5 1	1.50 % 2.50 % 4.00 %	1.00 % 2.50 % 4.00 %	-	-	A, L, M
725130	8-channel	5-100 µl	0.10	100 50 10	0.70 % 1.00 % 3.00 %	0.25 % 0.70 % 1.50 %	721008	721018	C, D, O, V
725140	8-channel	30-300 µl	0.20	300 150 30	0.60 % 1.00 % 2.00 %	0.25 % 0.50 % 1.00 %	721007	721017	D, Q
725220	12-channel	0.5-10 µl	0.01	10 5 1	1.50 % 2.50 % 4.00 %	1.00 % 2.50 % 4.00 %	-	-	A, L, M
725230	12-channel	5-100 µl	0.10	100 50 10	0.70 % 1.00 % 3.00 %	0.25 % 0.70 % 1.50 %	721008	721018	C, D, O, V
725240	12-channel	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.





Unique protection with Safe-Cone Filters

To prevent contamination of the pipette and the sample, the mLINE pipettes feature replaceable Safe-Cone Filters. The unique Safe-Cone Filter ejection of mLINE means that the filters can be easily and safely removed by pressing the plunger button. Safe-Cone Filters are available for both single- and multichannel models > 10 µl.

 Filters on page 56

Optiload tip loading and perfect tip sealing

All mLINE 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 cone(s) with minimum force
- Makes tip ejection light and easy
- Is an advantage in multichannel models, in particular, where even tip sealing is essential.

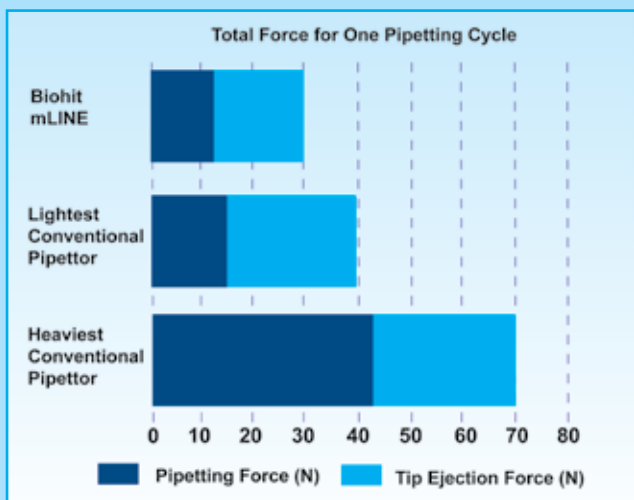
“The qualities that really convinced me to switch to Biohit mLINE are its light weight, lowest pipetting and tip ejection forces, easy to read display, locking mechanism to prevent accidental volume changes and finally, its compatibility to tips currently used at our company.”

Richard P. Roque, Preclinical Development, a Seattle based biotechnology company, USA

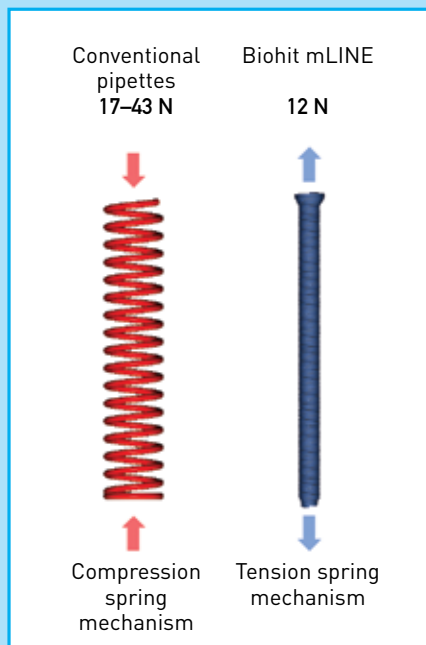
Unique spring mechanism for lighter pipetting

The mLINE pipette has a patented spring mechanism (plunger technology) resulting in the lowest pipetting forces on the market. This together with light tip ejection force and ergonomic design of the handle reduces the risk of Repetitive Strain Injury (RSI).

Conventional pipettes use compression spring mechanism resulting in heavy pipetting force. The tension spring mechanism used in Biohit mLINE pipettes makes pipetting force almost 4 times lighter. Moreover, thanks to the unique mechanism starting force is always constant regardless of the volume.



Pipetting and tip ejection force comparison of mLINE and other mechanical pipettes. The mLINE provides significantly lighter pipetting and tip ejection forces than any other mechanical pipette, making the total force for one pipetting cycle (pipetting to tip ejection) the lightest on the market.



 Ergonomics on page 74



Easy maintenance and calibration

The mLINE can be easily calibrated using the elegant calibration tool. The tool also acts as a tube cap opener.



The mLINE has been designed for easy cleaning and maintenance without any opening tool. Only 3-4 parts need to be cleaned.



The mLINE should, like any other pipette, be stored in an upright position. There are several different stand options for mLINE:

- Handy holder that is included with each mLINE pipette
- Carousel stand for six pipettes
- Stylish linear stand that allows the pipette to be placed on both sides of the stand

Stands & Accessories

Cat. No.	Item
725600	Carousel Stand for 6 pipettes
725610	Pipette Holder for one pipette
725620	Linear Stand
726203	Calibration tool/Tube opener



Get started with mLINE Starter Kit!



mLINE® Starter Kit

Biohit mLINE Starter Kit offers an opportunity to test and get started with mLINE. You can choose between two Starter Kits with three single-channel mLINE pipettes. Both kits also include

colour coded tip racks for every pipette and many useful accessories such as pipette holder, colour coding caps and a calibration tool, which also acts as a tube opener.

Biohit mLINE Starter Kit 1 - Cat. No. 725651

- mLINE 0.5-10 µl
- mLINE 10-100 µl
- mLINE 100-1000 µl
- Pipette Holder x 3
- Colour Coding Caps
- Biohit Pen
- Biohit Tip 0.2 –10 µl, Single Tray
- Biohit Tip 0.5-300 µl, Single Tray
- Biohit Tip 10-1000 µl, Single Tray
- Calibration Tool/Tube Opener
- mLINE Article
- mLINE Brochure
- Biohit Liquid Handling Catalogue

Biohit mLINE Starter Kit 2 - Cat. No. 725652

- mLINE 2-20 µl
- mLINE 20-200 µl
- mLINE 100-1000 µl
- Pipette Holder x 3
- Colour Coding Caps
- Biohit Pen
- Biohit Tip 0.5-300 µl, Single Tray x 2
- Biohit Tip 10-1000 µl, Single Tray
- Calibration Tool/Tube Opener
- mLINE Article
- mLINE Brochure
- Biohit Liquid Handling Catalogue