

mLINE®  
Mechanical Pipette



# mLINE® mechanical pipettes

## Effortless Accuracy

Sartorius Biohit's most advanced mechanical pipette family – the mLINE – offers excellent ergonomics, performance and safety in manual pipetting. It is particularly designed for repetitive and long-lasting pipetting in order to prevent work related hand, arm and shoulder disorders or Repetitive Strain Injury (RSI). mLINE is recommended by health and safety officers around the globe. It covers the full volume range of 0.1 µl to 10 ml and is available in single and multichannel models.

- Excellent ergonomics to protect from injuries, with the exceptionally light pipetting and tip ejection forces
- High accuracy and precision, also in repetitive, long-lasting pipetting
- Minimized risk of contamination with Safe-Cone Filters and full autoclavability
- Increased safety with volume lock which prevents accidental volume changes while pipetting



### Extremely light pipetting forces & ergonomic design

- Prevents repetitive strain injury (RSI)
- Better pipetting results in long pipetting series

### Thermal insulation of internal components to improve accuracy

### Volume lock

- Prevents accidental volume changes while pipetting



Fully autoclavable

### Fully autoclavable without disassembling

- Easy to steam sterilize, improves purity



### Optiload for perfect tip sealing

- 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

### Color-coded caps

- Possibility to individualize the pipette or mark to be used for certain application

### Smooth and light volume setting

- Prevents hand injuries, can be adjusted with finger tips

### Unique thumb activated light filter ejection mechanism

### Ergonomic finger support

- No need to squeeze the pipette during pipetting, reduces the risk of RSI

### Large numbers used on volume display

- Quick and easy-to-read volume minimizes risk of volume-setting errors

### Materials have high chemical and UV-resistance

- Highly durable and long lasting pipette

### Volume noted on display

- Eases correct tip selection

### 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 e.g. for different liquids





### **Superior ergonomics**

mLINE pipettes have a patented spring mechanism (plunger technology) resulting in exceptionally light pipetting forces. The tension spring mechanism makes the pipetting force almost 4 times lighter than conventional compression spring operated pipettes. Light pipetting force improves pipetting precision in long pipetting series. Thanks to the device's unique spring mechanism, the starting force is always constant, regardless of the set volume, which improves pipetting results especially for small volumes.



### **Perfect tip sealing with Optiload tip loading mechanism**

All mLINE 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 with multichannel models, where tip loading and ejecting generally requires 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 mLINE models greater than 10  $\mu$ l. These filters must be replaced regularly, and in every case of overaspiration.



### **Unique Safe-Cone filter ejection mechanism**

Safe-Cone filters can be removed easily and safely by removing the color cap and pressing the operating button all the way down.

## mLINE® - Ordering details

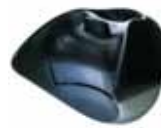
Cat. No.	Fisher Scientific Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Filters		Optifit Tips (µl)	SafetySpace™ Filter Tips (µl)	
								Standard	Plus			
725010	14-559-404	1	● 0.1-3	0.002	3	1.30	0.80	-	-	10	10	
					1.5	2.40	1.60					
					0.3	10.00	6.00					
725020	14-559-405	1	● 0.5-10	0.01	10	1.00	0.60	-	-	10	10	
					5	1.50	1.00					
					1	2.50	1.50					
725030	14-559-406	1	● 2-20	0.02	20	0.90	0.40	721014	-	200	20	
					10	1.20	1.00					
					2	3.00	2.00					
725050	14-559-407	1	● 10-100	0.10	100	0.80	0.15	721008	721018	200	120	
					50	1.00	0.40			350		
					10	2.00	1.00					
725060	14-559-408	1	● 20-200	0.20	200	0.60	0.15	721007	721017	200	200	
					100	0.80	0.30			350		300
					20	2.00	0.80					
725070	14-559-409	1	● 100-1000	1.00	1000	0.60	0.20	721006	721016	1000	1000	
					500	0.60	0.20					
					100	1.00	0.40					
725080	14-559-410	1	● 500-5000	10.0	5000	0.50	0.20	721005	721015	5000	-	
					2500	0.60	0.30					
					500	2.00	0.60					
725090	14-559-411	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					
725120	14-559-412	8	● 0.5-10	0.01	10	1.50	1.00	-	-	10	10	
					5	2.50	2.50					
					1	4.00	4.00					
725130	14-559-413	8	● 5-100	0.10	100	0.70	0.25	721008	721018	200	120	
					50	1.00	0.70			350		
					10	3.00	1.50					
725140	14-559-414	8	● 30-300	0.20	300	0.60	0.25	721007	721017	350	300	
					150	1.00	0.50					
					30	2.00	1.00					
725220	14-559-415	12	● 0.5-10	0.01	10	1.50	1.00	-	-	10	10	
					5	2.50	2.50					
					1	4.00	4.00					
725230	14-559-416	12	● 5-100	0.10	100	0.70	0.25	721008	721018	200	120	
					50	1.00	0.70			350		
					10	3.00	1.50					
725240	14-559-417	12	● 30-300	0.20	300	0.60	0.25	721007	721017	350	300	
					150	1.00	0.50					
					30	2.00	1.00					

## Pipette stands and accessories – Ordering details

Cat. No.	FS Cat. No.	Item
725600	14-559-418	Carousel Stand for six pipettes
725610	14-559-421	Pipette Holder for one pipette
725620	14-559-420	Linear Stand
726203	14-559-421	Calibration tool/Tube opener
726001	14-559-422	Color-coding caps, 5 pieces



Calibration tool



Pipette Holder



Linear Stand



Carousel Stand

## mLINE® Starter Kit

mLINE Starter Kit offers an opportunity to test and get started with mLINE pipettes. You can choose between two Starter Kits with three single-channel pipettes of different volumes. Both kits also include color-coded tip racks for every pipette and many useful accessories such as a pipette holder, color-coding caps and a calibration tool, which also acts as a tube opener. mLINE PCR Starter Kit includes all you need to make your PCR work fast and reliably. A cooling rack keeps valuable samples stable while working, thereby increasing reliability.

### mLINE® Starter Kit 1 -

**Cat. No. 725651 FS Cat. No. 14-559-423**

mLINE 0.5-10 µl

mLINE 10-100 µl

mLINE 100-1000 µl

Optifit Tip 0.1-10 µl, Single Tray

Optifit Tip 0.5-200 µl, Single Tray

Optifit Tip 10-1000 µl, Single Tray

Pipette Holder x 3

Color-coding Caps

Calibration Tool/Tube Opener

Pen

Literature

### mLINE® Starter Kit 2 -

**Cat. No. 725652 FS Cat. No. 14-559-424**

mLINE 2-20 µl

mLINE 20-200 µl

mLINE 100-1000 µl

Optifit Tip 0.5-200 µl, Single Tray

Optifit Tip 10-1000 µl, Single Tray

Pipette Holder x 3

Color-coding Caps

Calibration Tool/Tube Opener

Pen

Literature

### mLINE® Starter Kit 4 -

**Cat. No. 725654 FS Cat. No. 14-559-425**

mLINE pipette 0.5-10 µl

mLINE pipette 2-20 µl

mLINE pipette 20-200 µl

mLINE pipette 100-1000 µl

Pipette Holder x 4

Color Coding Caps

Biohit Pen

Biohit Optifit Tip 0.2-10 µl, Single Tray

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

Biohit Optifit Tip 10-1000 µl, Single Tray

Calibration Tool/Tube Opener

Literature

### mLINE® PCR Starter Kit 3 -

**Cat. No. 725660 FS Cat. No. 14-559-581**

mLINE 0.5-10 µl

mLINE 10-100 µl

mLINE 100-1000 µl

SafetySpace Filter Tip 0.1-10 µl, Single Tray, sterile

SafetySpace Filter Tip 2-120 µl, Single Tray, sterile

SafetySpace Filter Tip 50-1000 µl, Single Tray, sterile

Pipette Holder x 3

Color Coding Caps

Calibration Tool/Tube Opener

Cryo Pen

Cooling Rack for Micro Tubes



**In the United States:**

For customer service, call 1-800-766-7000.

To fax an order, use 1-800-926-1166.

To order online: [www.fishersci.com](http://www.fishersci.com)

**In Canada:**

For customer service, call 1-800-234-7437.

To fax an order, use 1-800-463-2996.

To order online: [www.fishersci.ca](http://www.fishersci.ca)