

# 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
- Minimised 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 without disassembling**  
 - Easy to steam sterilise, 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

**Colour coded caps**  
 - Possibility to individualise 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 minimises risk of volume-setting errors

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

**Volume colour coding**  
 - Eases correct Biohit tip selection, through matching colour code

**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 µl. These filters must be replaced regularly, and in every case of over-aspiration.



### Unique Safe-Cone filter ejection mechanism

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

### mLINE® - 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		
725010	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	1	● 0.5-10	0.01	10	1.00	0.60	-	-	10	10
				5	1.50	1.00				
				1	2.50	1.50				
725030	1	● 2-20	0.02	20	0.90	0.40	721014	-	200	20
				10	1.20	1.00				
				2	3.00	2.00				
725050	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	1	● 20-200	0.20	200	0.60	0.15	721007	721017	200	200
				100	0.80	0.30			350	
				20	2.00	0.80			300	
725070	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	1	● 500-5000	10.0	5000	0.50	0.20	721005	721015	5000	-
				2500	0.60	0.30				
				500	2.00	0.60				
725090	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	8	● 0.5-10	0.01	10	1.50	1.00	-	-	10	10
				5	2.50	2.50				
				1	4.00	4.00				
725130	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	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	12	● 0.5-10	0.01	10	1.50	1.00	-	-	10	10
				5	2.50	2.50				
				1	4.00	4.00				
725230	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	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.	Item
725600	Carousel Stand for 6 pipettes
725610	Pipette Holder for one pipette
725620	Linear Stand
726203	Calibration tool/Tube opener
726001	Colour coding caps, 5 pcs



Calibration tool



Pipette Holder



Carousel Stand



Linear Stand

mLINE® Starter Kit and mLINE® PCR 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 colour coded tip racks for every pipette and many useful accessories such as a pipette holder, colour 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 reliable. A cooling rack keeps valuable samples stable while working, thereby increasing reliability.

mLINE® Starter Kit 1 – Cat. No. 725651

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
Colour Coding Caps
Calibration Tool/Tube Opener x 3
Pen
Literature

mLINE® Starter Kit 2 – Cat. No. 725652

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
Colour Coding Caps
Calibration Tool/Tube Opener x 3
Pen
Literature

mLINE® PCR Starter Kit 3 – Cat. No. 725660

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
Colour Coding Caps
Calibration Tool/Tube Opener x 3
Cryo Pen
Cooling Rack for Micro Tubes

