

# The Sartorius Range by Pathtech

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Phone 1800 069 161 | Email [info@pathtech.com.au](mailto:info@pathtech.com.au)  
[www.pathtech.com.au](http://www.pathtech.com.au)

# SARTORIUS

## HOW TO CHOOSE A PIPETTE:

# Electronic or Mechanical Pipette

Are you looking for a pipette for sterile work, or one you could easily calibrate yourself? Or do you seek a really light and ergonomic solution? Perhaps you need a pipette with a certain mode to speed up your work? By consulting the tables below, you can choose the instrument that best suits your needs.

Features	Electronic Pipettes	Mechanical Pipettes
Highest ergonomics	✓	
Fastest pipetting	✓	
User-independent results	✓	
Multiple pipetting modes	✓	
Fully autoclavable		✓*
Adjustment by User	✓#	✓

# Picus and Picus NXT only

\* Excluding Proline

## MECHANICAL PIPETTES

Features	Tacta	mLINE	Proline Plus	Proline
Most ergonomic	✓			
Ergonomic finger hook	✓	✓	✓	✓
Weight#	75 g	77 g	82 g	84 g
Length#	225 mm	240 mm	239 mm	224 mm
Volume range, single channels	0.1 µl – 10 ml	0.1 µl – 10 ml	0.1 µl – 10 ml	0.1 µl – 5 ml
Volume range, multi channels	0.5 – 300 µl	0.5 – 300 µl	0.5 – 300 µl	0.5 – 300 µl
Fixed volume models			✓	✓
Pipetting force#	12 N	13 N	15 N	20 N
User adjustment	✓	✓	✓	✓
Optilock on/off volume lock	✓			
Volume locking	✓	✓	Click stops	Click stops
Big, and easy to read display	✓	✓	✓	
Weight#	77 g	77 g	82 g	84 g
Fully autoclavable	✓	✓	✓	
Warranty for 2 years	✓	✓	✓	✓

# 1,000 µl 1-channel models

## ELECTRONIC PIPETTES

Features	Picus NxT	Picus
Most ergonomic	✓	
Weight#	100 g	100 g
Length#	210 mm	210 mm
Volume range, single channels	0.2 µl – 10 ml	0.2 µl – 10 ml
Volume range, multi channels	0.2 µl – 1.2 ml	0.2 µl – 1.2 ml
Pipetting modes	5	5
Advanced functions	7	6
Repeated blow out (advanced function)	✓	
Microwell plate tracker	✓	✓
Protocols -memory places	3	
Memory places (for storing programs)	10	10
Reminders for calibration and storage	✓	✓
Fully autoclavable	✓	✓
Fully charged in 1 hour	✓	✓
Use of pipette whilst charging	✓	✓
Warranty for 2 years	✓	✓

# 300 µl 1-channel models

## ELECTRONIC PIPETTES


### Picus® & Picus® NxT


## The most sophisticated and Ergonomic Pipettes


Enjoy your work with the award winning Picus! Its highly sophisticated and completely ergonomic design will reduce your risk of repetitive strain injury (RSI). Fully electronic operation ensures the maximum accuracy and repeatability of your results.

- ▶ Uniquely lightweight and streamlined design for effortless pipetting experience
- ▶ Conveniently located soft-touch operating button and electronic tip ejection help minimize muscle strain
- ▶ The comfortable design of the handle and finger hook enable Picus to rest lightly in your hand, with minimum effort
- ▶ Electronic piston control and brake guarantee accurate and precise pipetting results, independent of the user


### PICUS® RANGE:


	Picus® single channel pipette	Part #
	0.2 – 10ul	171-735021
	0.5 – 120ul	171-735041
	10 – 300ul	171-735061
	50 – 100ul	171-735081
	100 – 5000ul	171-735101
	500 – 10,000ul	171-735111


	Picus® 8-channel pipette	Part #
	0.2 - 10ul	171-735321
	5 - 120ul	171-735341
	10 - 300ul	171-735361
	50 - 1200ul	171-735391

	Picus® 12-channel pipette	Part #
	0.2 - 10ul	171-735421
	5 - 120ul	171-735441
	10 - 300ul	171-735461
	50 - 1200ul	171-735497

### PICUS® NxT RANGE:

	Picus® NxT single channel pipette	Part #
	0.2 – 10ul	171-LH-745321
	5 – 120ul	171-LH-745041
	10 – 300ul	171-LH-745061
	50 – 1000ul	171-LH-745081
	100 – 5000ul	171-LH-745101
	500 – 10,000ul	171-LH-745111

	Picus® NxT 8-channel pipette	Part #
	0.2 - 10ul	171-LH-745321
	5 - 120ul	171-LH-745341
	10 - 300ul	171-LH-745361
	50 - 1200ul	171-LH-745391

	Picus® NxT 12-channel pipette	Part #
	0.2 - 10ul	171-LH-745421
	5 - 120ul	171-LH-745441
	10 - 300ul	171-LH-745461
	50 - 1200ul	171-LH-745491

## MECHANICAL PIPETTES

# The Tacta Pipette Family

Tacta has been designed to feel great in your hands. Thanks to its ergonomic handle and finger hook, there is no need to grip the pipette tightly. Easy, safe and comfortable to use, Tacta meets the most demanding pipetting requirements, delivering consistently accurate results time after time.

- › Comfortable to hold due to the ergonomically designed handle
- › Low pipetting and tip ejection forces that reduce the risk of RSI
- › Calibration adjustment to provide accurate results for various liquid types
- › Reliable results, even over lengthy pipetting periods

### TACTA RANGE:



#### Tacta single channel pipette

#### Part #

0.1 – 3ul	171-LH-729010
0.5 – 10ul	171-LH-729020
2 – 20ul	171-LH-729030
10 – 100ul	171-LH-729050
20 – 200ul	171-LH-729060
100 – 1000ul	171-LH-729070
500 - 5000ul	171-LH-729080
1– 10ml	171-LH-729090



#### Tacta 8 channel pipette

#### Part #

0.5 - 10ul	171-LH-729120
5 - 100ul	171-LH-729130
30 - 300ul	171-LH-729140



#### Tacta 12 channel pipette

#### Part #

0.5 - 10ul	171-LH-729220
5 - 100ul	171-LH-729230
30 - 300ul	171-LH-729240

## MECHANICAL PIPETTES

# The mLINE Pipette Family

Sartorius' mechanical pipette family - the mLINE - offers excellent ergonomics, performance and safety in manual pipetting. It is particularly designed to maintain high accuracy and precision in repetitive and long-lasting pipetting. The mLINE is an advanced and ergonomic choice for quality-conscious users who perform long and repetitive manual pipetting and is recommended by health and safety officers all over the world.

- ▶ 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 preventing accidental volume changes while pipetting

### mLINE RANGE:



#### mLINE single channel pipette

#### Part #

0.1 – 3ul	171-725010
0.5 – 10ul	171-725020
2 – 20ul	171-725030
10 – 100ul	171-725050
20 – 200ul	171-725060
100 – 1000ul	171-725070
500 – 5000ul	171-725080
1– 10ml	171-725090



#### mLINE 8 channel pipette

#### Part #

0.5 – 10ul	171-725120
5 – 100ul	171-725130
30 – 300ul	171-725140



#### mLINE 12 channel pipette

#### Part #

0.5 – 10ul	171-725220
5 – 100ul	171-725230
30 – 300ul	171-725240

## MECHANICAL PIPETTES

# The Proline Plus Pipette Family

Proline Plus mechanical pipette family is designed to offer comfort and quality for your everyday manual pipetting. It combines durable construction with ease and lightness of use and is therefore a perfect choice for liquid-handling professionals and students alike. Proline Plus has low pipetting forces, a comfortable handle and a robust feel for heavier use.

- › 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
- › Minimised risk of contamination with Safe-Cone Filters and full autoclavability
- › Highly durable with strengthened structure also for heavier use

## PROLINE PLUS RANGE:

	<b>Proline Plus single channel pipette</b>	<b>Part #</b>
	0.1 – 3ul	171-728010
	0.5 – 10ul	171-728020
	2 – 20ul	171-728030
	5 - 50ul	171-728040
	10 – 100ul	171-728050
	20 – 200ul	171-728060
	100 – 1000ul	171-728070
	500 - 5000ul	171-728080
	1 – 10ml	171-728090
	<b>Proline Plus 8 channel pipette</b>	<b>Part #</b>
	0.5 - 10ul	171-728120
	10 - 100ul	171-728130
	30 - 300ul	171-728140
	<b>Proline Plus 12 channel pipette</b>	<b>Part #</b>
	0.5 - 10ul	171-728220
	10 - 100ul	171-728230
	30 - 300ul	171-728240


## MECHANICAL PIPETTES

# The Proline Pipette Family

The fact that Proline, Sartorius' first mechanical pipette, is still in use in many laboratories by over 200,000 users, testifies to its timeless, practical design and reliability. Being the most affordable pipette in Sartorius' range of mechanical pipettes, it is ideal for universities and colleges, or any laboratory seeking a cost-efficient liquid handling tool.

- ▶ Wide range of adjustable pipette volumes - from 2.5ul to 5 ml
- ▶ Easy volume setting with click stop mechanism
- ▶ Safe-Cone Filters available for models > 10ul
- ▶ Relatively lightweight, highly accurate and precise

## PROLINE RANGE:

	Proline single channel pipette	Part #
	0.1 – 2.5ul	171-720010
	0.5 – 10ul	171-720015
	2 – 20ul	171-20080
	5 – 50ul	171-720025
	10 – 100ul	171-720050
	20 – 200ul	171-720070
	100 – 1000ul	171-720060
	1 – 5ml	171-720110

## Pipette Stands

When the Pipette is not in use, it should be stored in an upright position in order to avoid contamination from work surfaces. Here are some of the stands available:



Charging Carousel Stand

Product Code: 171-730981



Charging Stand

Product Code: 171-730991



Linear Stand  
(non-charging)

Product Code: 171-725620



Carousel Stand  
(non-charging)

Product Code: 171-725630



## MAXI VOLUME LIQUID HANDLING

### Midi Plus Pipette Controller

Midi Plus is a lightweight cordless pipetting controller, which allows aspiration from bottles and tubes without the arm and hand elevations required with serological or volumetric pipettes. It fits all commonly used glass or plastic pipettes but can also be used with Sartorius 5 ml and 10 ml disposable tips.

- Precise fingertip control of variable speed ranges
- Fits all commonly used 1 - 100 ml glass or plastic pipettes
- Hydrophobic autoclavable filter prevents from over aspiration
- Convenient fold-out bench stand supports the unit and pipette when not in use



#### Midi Plus (inc. AC Adaptor)

1 – 100ml

#### Part #

171-710931

### The Prospenser and Prospenser Plus

The Prospenser and Prospenser Plus are high quality bottle-top dispensers with excellent chemical resistance. They are safe, convenient, and customizable, making them perfect for a wide range of dispensing needs.

- Extremely high chemical and thermal resistance due to ceramic piston, glass cylinder, and highly resistant fluoroplastic parts
  - The incremental volume setup ensures accurate and repeatable results
  - Fully autoclavable
  - Wide range of adapters included to fit most common bottle sizes
- The Prospenser Plus also includes 3 advanced features:**
- Media Recirculation System, Smart 360° Rotating Dispensing Head and Universal Connector for drying tubes and filters.



#### Bottle Top Dispenser Prospenser

#### Part #

0.2 – 1ml	171-LH-723060
0.4 – 2ml	171-LH-723061
1 – 5ml	171-LH-723062
2 – 10ml	171-LH-723063
5 – 30ml	171-LH-723064
10 – 60ml	171-LH-723065



#### Bottle Top Dispenser Prospenser Plus

#### Part #

0.2 – 1ml	171-LH-723070
0.4 – 2ml	171-LH-723071
1 – 5ml	171-LH-723072
2 – 10ml	171-LH-723073
5 – 30ml	171-LH-723074
10 – 60ml	171-LH-723075

# Pipette Service & Calibration



Pathtech provides calibration, maintenance and repair services to extend the lifetime and ensure the continuous accuracy and precision of your pipettes via our Service Laboratories.

## Why is Calibration and Maintenance Needed?

All pipette manufacturers recommend that regular maintenance and calibration is applied to maintain reliable pipetting results and to maximize the lifetime of the pipette. Pipette calibration is a fundamental part of Good Laboratory Practice (GLP) and quality systems and must be considered a vital part of any laboratory regime where precise volumes of fluid need transferring or diluting. Pipette performance is measured as accuracy and precision or how close the dispensed volumes are to the target and how close the results are to each other.

## Our pipette service offerings give you choice.

Choose from Calibration Only or Calibration Plus Service based on your particular need.

## Why choose us for your next service?

- › We service all major makes and models\*
- › We only use quality and reputable products
- › Upfront costs, with no hidden extras.
- › Experienced Technicians.
- › Quick and efficient customer service with the use of our Asset Management Portal
- › Reward based customer loyalty
- › 10 years plus accredited laboratory



### Terms & Conditions:

\*Makes and models of pipettes we do service:

Pathtech service major brands including: Sartorius, Biohit, Finnpipette, Gilson, Eppendorf, Socorex, Rainin and many more.

\*Pipette needs to be in working order

\*Repair parts at an additional fee and will be quoted by Pathtech

\*Warranty claims are handled on a case by case basis where discussed with Pathtech

\*Pathtech reserves the right to charge a \$20 inspection fee where necessary

# The Sartorius Pipette Tip Range



SARTORIUS

## PIPETTE TIP RANGE

# Optifit Tips

## Standard Tips for Various Needs






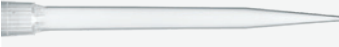



Sartorius Optifit tips are an excellent choice for various laboratories and pipetting tasks with their wide range of packaging and purity options. The Optifit tips are packed in single tray racks, refill towers, single refill packs, and bulk packages. Optifit tips are available DNase, RNase and endotoxin free, as well as e-beam pre-sterilized.

### Features:


- › Standard non-filter tips made to Sartorius quality standards
- › Low Retention Tip range also available for liquids with low surface tension
- › Perfect fitting and sealing with Sartorius Picus NxT, Picus, Tacta, mLINE, Proline Plus, and Proline pipettes
- › Extensive tip volume range from 10 µl to 10 ml
- › Wide selection of packaging and purity options
- › Available as DNase, RNase and endotoxin-free
- › e-beam pre-sterilized packaging options available
- › Full traceability
- › Colour-coded trays to match with corresponding Sartorius pipettes
- › Fully autoclavable at 121°C , at 1 bar, for 20 minutes

Volume Range	Length	Packaging	Low Retention	Purity Level Free of RNase, DNase, endotoxins	Pre-sterilised	Tips/Unit	Product Code
● 0.1 -10ul	31.5mm	Single Tray		●		10 x 96	171-790010
		Single Tray	●	●		10 x 96	171-LH-L790010
		Single Tray		●	●	10 x 96	171-790011
		Refill Tower				10 x 96	171-790012
		Refill Tower	●			10 x 96	171-LH-L790012
		Refill Tower		●	●	20 x 96	171-790013
		Refill Pack				1,000	171-790014
● 0.1 – 10ul Extended	46mm	Single Tray		●		10 x 96	171-783210
		Single Tray		●	●	10 x 96	171-783211
● 0.5 – 200 ul	51mm	Single Tray		●		10 x 96	171-790200
		Single Tray	●	●		10 x 96	171-LH-L790200
		Single Tray		●	●	10 x 96	171-790201
		Refill Tower				10 x 96	171-790202
		Refill Tower	●			10 x 96	171-LH-L790202
		Refill Pack		●	●	15 x 96	171-790203
		FlexiBulk				960	171-LH-B790204

Volume Range	Length	Packaging	Low Retention	Purity Level Free of RNase, DNase, endotoxins	Pre-sterilised	Tips/Unit	Product Code
● 5 – 350ul 	54mm	Single Tray		•		10 x 96	171-790350
		Single Tray	•	•		10 x 96	171-LH-L790350
		Single Tray		•	•	10 x 96	171-790351
		Refill Tower				10 x 96	171-790352
		Refill Tower	•			10 x 96	171-LH-L790352
		Refill Pack		•	•	15 x 96	171-790353
		FlexiBulk				960	171-B790354
● 10 – 1,000ul 	71.5mm	Single Tray		•		10 x 96	171-791000
		Single Tray	•	•		10 x 96	171-LH-L791000
		Single Tray		•	•	10 x 96	171-791001
		Refill Pack		•		10 x 96	171-791002
		Refill Pack		•	•	10 x 96	171-791003
		FlexiBulk				480	171-LH-B791004
● 10 – 1,000 ul Wide Bore Tip 	68.5mm	Single Tray		•		10 x 96	171-791020
		Single Tray		•	•	10 x 96	171-791021
		FlexiBulk				480	171-LH-B791024
● 50 – 1,200ul 	71.5mm	Single Tray		•		10 x 96	171-791200
		Single Tray	•	•		10 x 96	171-LH-L791200
		Single Tray		•	•	10 x 96	171-791201
		Refill Pack		•		10 x 96	171-791202
		Refill Pack		•	•	10 x 96	171-791203
		FlexiBulk				480	171-LH-B791204
● 50 – 1,200ul Extended 	90mm	Single Tray		•		10 x 96	171-791210
		Single Tray	•	•	•	10 x 96	171-LH-L791210
		Single Tray		•		10 x 96	171-791211
		Refill Pack		•		10 x 96	171-791212
		Refill Pack		•	•	10 x 96	171-791213
● 100 – 5,000ul 	150mm	Single Tray		•		50	171-780304
		Single Tray		•	•	50	171-780305
		Bulk in Bag				100	171-780300
		Bulk in Bag				1,000	171-780308
● 100 – 10,000ul 	155mm	Single Tray				35	171-LH-780314
		Bulk in Bag				250	171-LH-780316















## PIPETTE TIP RANGE

# SafetySpace Filter Tips Protect Valuable Samples

 SafetySpace Filter Tips, made of virgin polypropylene, feature filter barriers that effectively capture solid and liquid aerosol particles. The filter is made of polyethylene without self-sealing additives to avoid any interference with the sample and results. The filter protects the sample against contamination. In addition, it protects the pipette and prolongs the maintenance interval of the pipette.

### Features:


- › Filter minimizes the risk of aerosol contamination
- › Volume of air between the sample and filter reduces the risk of contaminating the internal components of our pipettes
- › Covers tip volumes from 10 µl to 1,200 µl
- › Certified free of DNase, RNase and endotoxins
- › e-beam pre-sterilized
- › Full traceability
- › Colour-coded trays indicate the matching colour-coded Sartorius pipette

Volume Range	Length	Packaging	Low Retention	Purity Level Free of RNase, DNase, endotoxins	Pre-sterilised	Tips/Unit	Product Code
 0.1 - 10ul	31.5mm	Single Tray		•	•	10 x 96	171-790011F
		 Single Tray	•	•	•	10 x 96	171-LH-LF790011
 0.5 - 20 ul	51mm	Single Tray		•	•	10 x 96	171-790021F
		 Single Tray	•	•	•	10 x 96	171-LH-LF790021
 2 - 120ul	51mm	Single Tray		•	•	10 x 96	171-790101F
		 Single Tray	•	•	•	10 x 96	171-LH-LF790101
 5 - 200ul	52.5mm	Single Tray		•	•	10 x 96	171-790201F
		 Single Tray	•	•	•	10 x 96	171-LH-LF790201
 5 - 300ul	52.5mm	Single Tray		•	•	10 x 96	171-790301F
		 Single Tray	•	•	•	10 x 96	171-LH-LF790301
 50 - 1,000ul	78mm	Single Tray		•	•	10 x 96	171-791001F
		 Single Tray	•	•	•	10 x 96	171-LH-LF791001
 50 - 1,200ul	90mm	Single Tray		•	•	10 x 96	171-791211F
		 Single Tray	•	•	•	10 x 96	171-LH-LF791211

## PIPETTE TIP RANGE

### Filter Tips with Air Gap

Volume Range	Length	Packaging	Low Retention	Purity Level Free of RNase, DNase, endotoxins	Pre-sterilised	Tips/Unit	Product Code
● 0.1 -10ul Extended	46mm	Single Tray		●	●	10 x 96	171-783201



### Low Retention Tips Ensure Optimal Sample Recovery

Pipetting liquids that contain detergents can be problematic when using standard pipette tips. Some liquid residue often remains in the tip due to differences in surface energies between the plastic pipette tip and the sample. The residue causes imprecision in pipetting and loss of valuable samples or reagents.

Sartorius use an advanced technology to manufacture Low Retention Tips that have an extremely even and durable hydrophobic surface. Unlike some other hydrophobic tips on the market, our low retention tips do not contain any leachables that might risk your sample.

Sartorius Low Retention Tips feature an extremely even and durable liquid-repellent surface for maximising your sample recovery and eliminating the loss of your expensive reagents. As a result, detergent-containing liquids with a low surface tension slide off easily from the inside surface of the tip, leaving very little residue behind.





**Pathtech**<sup>TM</sup>  
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