



■ Pipette Tips

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Optifit Tips and SafetySpace™ Filter Tips

The Perfect Match for Your Pipette



Liquid handling, pipetting results are not dependent on the pipette or the tip alone, but a combination of these and the comfort of the user. Our Optifit Tips and SafetySpace™ Filter Tips are designed and manufactured as a perfect fit for our pipettes, enabling maximal accuracy, precision and ergonomics. The unique OptiLoad mechanism of our pipettes allows tip attachment and loading with reduced force, but with complete sealing. These tips' universal design also secures compatibility with the pipettes of most other manufacturers.

Manufacturing the tips in our own production facility allows us to maintain the highest quality and purity standards, by selecting the best plastic materials and controlling the manufacturing process from beginning to end. Our quality management system follows not only ISO 9001 and ISO 14001, but also ISO 13485. Tip production also abides by the ISO 14644-1 standard, in order to fulfil ISO Class 8 cleanroom conditions for secured tip purity.

ISO Class 8 Clean Room Manufacturing

Contamination Free Tips

To avoid contamination from human contact, we have automated the entire tip manufacturing process. Pure virgin polypropylene (PP) plastic is automatically fed from silos into moulding machines. Moulding machines and robots located in isolated clean cells load the tips automatically into tip trays and packaging. HEPA filters and higher air pressure are applied for purity within the cell. All Sartorius Single Tray tip racks and Single Refill Packs are individually and automatically packed in air-tight plastic, in order to rule out any danger of contamination.

Additionally, our highly experienced and trained personnel are equipped with specially designed clothing, masks, hair nets and gloves, in order to further diminish contamination risks.

An independent laboratory checks each Single Tray and Refill Pack tip lot for RNase, DNase and endotoxins. lot-specific purity certificates can be downloaded from www.Sartorius.com select from the navigation bar: → liquid handling → Tip Quality Certificates.

Features and Benefits

- Best fit – highest possible accuracy
- Perfect fitting and sealing with Sartorius pipettes secure the highest possible accuracy and precision
- Compatible with OptiLoad feature in Sartorius Picos, eLINE, mLNE and ProLine Pico pipettes enabling ergonomic and light tip attachment and ejection
- Colour coding of the tip trays allows easy matching with a suitable colour coded Sartorius pipette
- Compatible with most other pipette makes (see compatibility with other manufacturers' pipettes at www.sartorius.com)

Large Variety of Packaging Options Available:

- Single Tray racks
- Refill Towers
- Single Refill Packs
- Bulk in box

Premium Quality and Purity:

- Strict quality standards, ISO 9001 and ISO 13485, followed from R&D to production and delivery
- Manufactured in ISO 8 classified clean room conditions
- DNase, RNase and endotoxin free manufacturing process
- Single Trays and Refill Packs certified pure by lot number
- Pre-sterilised tips are e-beam irradiated
- All tip packages, including individual racks, are lot numbered for full traceability
- The highest quality virgin polypropylene used as raw material



● SafetySpace™ Filter Tips

No Risk of the Sample Penetrating the Filter



SafetySpace™ Filter Tips leave more space between the sample and the filter than conventional filter tips. This allows pipetting any type of liquid or using any pipetting technique without the risk of the previous sample permeating the filter. In effect, this ensures full sample recovery and thus greater accuracy.

This Feature is Particularly Useful in the Following Applications

- pipetting foaming liquids such as buffers and proteins
- pipetting solvents
- multiple dispensing functions of electronic pipettes
- reverse pipetting

The filter tips are made of virgin polypropylene and feature filter (FE) barriers, in order to prevent aerosol and liquid contamination. This helps protect against the risk of cross-contamination and reduces the pipette's maintenance requirements. The filter is made of polyethylene without "self-sealing" additives to avoid any interference with the sample and results.

SafetySpace™ Filter Tips are available in multiple volumes from 10 µl to 1200 µl and are packed in colour-coded Single Tray racks. They are certified DNase, RNase and endotoxin-free and are e-beam pre-sterilised. Lot-specific purity certificates can be downloaded from www.ihl.com.

The SafetySpace™ Filter Tips are Ideal for

- molecular biology
- microbiology
- cell culture applications
- radioactive work



DOMINIQUE DUTSCHER SAS

Package Options



SafetySpace® Filter Tips
Pre-sterilised
Single Tray racks



SafetySpace® Filter Tips

Single Tray Racks

- 10 racks of 96 tips
- Pre-sterilised (e-beam) and DNase, RNase and endotoxin-free certified
- Informative rack labelling improves tip identification and traceability: volume, product number, lot number
- Racks, trays and tips are 100% recyclable
- Air-tight plastic wrapping around the rack secures purity during transport and storage (the plastic wrapping is regular waste)
- Tip trays are colour coded to indicate the matching, colour coded Sartorius pipette
- Covers a large range of tip volumes from 10 µl to 1200 µl
- Trays and racks are fully autoclavable at 121 °C for 20 minutes

Optifit Tips

Single Tray Racks

- 10 racks of 96 tips
- DNase, RNase and endotoxin-free certified
- Available as e-beam pre-sterilised or non-sterilised
- Informative rack labelling improves tip identification and traceability: volume, product number, lot number
- Racks, trays and tips are 100% recyclable
- Air-tight plastic wrapping around the rack secures purity during transport and storage (the plastic wrapping is regular waste)
- Tip trays are colour coded to indicate the matching, colour coded Sartorius pipette
- Covers a large range of tip volumes from 10 µl to 5 ml
- Fully autoclavable at 121 °C for 20 minutes



Optifit Tips
Single Tray racks



Refill Towers

Optifit Tips

Refill Towers

- Space-saving with 10x96 tips in one tower
- Ecological with cardboard packaging, 100% recyclable
- Tip trays to be transferred to Single Tray racks before use
- Trays are colour coded to indicate the matching, colour coded Sartorius pipette
- Covers the most used tip sizes: 10 µl, 200 µl and 350 µl
- Trays and tips are fully autoclavable at 121 °C for 20 minutes



Single Refill Packs
Pre-sterilised Optifit Tips



Single Refill Packs

- 10, 15 or 20 trays of 96 tips depending on tip volume
- DNase, RNase, endotoxin-free certified
- Available as e-beam pre-sterilised or non-sterilised
- Individually packed air-tight tip trays for maximum purity with less packaging material compared to racked tips
- Trays to be transferred to Single Tray racks before use
- Container lid with informative tip identification markings including product and lot numbers
- Tip trays are colour coded to indicate the matching, colour coded Sartorius pipette
- Covers a large range of tip volumes from 10 µl to 1200 µl
- Trays and tips are fully autoclavable at 121 °C for 20 minutes
- Apart from the container lid, material is recyclable

Bulk in a Box

- Tips made to the Sartorius quality standard in economical packaging
- Packed in reusable bags in cardboard boxes (1000, 400, 250 or 100 pcs depending on tip volume)
- 100% recyclable
- Covers a large range of tip volumes from 10 µl to 10 ml
- Tips are fully autoclavable at 121 °C for 20 minutes



Bulk in a box








Ordering Information

Optifit Tips

Volume Range		Length	Packaging	Purity Level RNase, DNase, endotoxin- free	Pre-steri- lized	Qty/Unit	Cat. No.
0.1–10 µl		31.5 mm	Single Tray	•	•	10 × 96	790010
			Single Tray	•	•	10 × 96	790011
			Refill Tower	•	•	10 × 96	790012
			Refill Pack	•	•	20 × 96	790013
			Bulk in Box	•	•	1000	790014
0.1–10 µl Extended		46 mm	Single Tray	•	•	10 × 96	783210
			Single Tray	•	•	10 × 96	783211
0.5–200 µl		51 mm	Single Tray	•	•	10 × 96	790200
			Single Tray	•	•	10 × 96	790201
			Refill Tower	•	•	10 × 96	790202
			Refill Pack	•	•	1.5 × 96	790203
5–200 µl		54 mm	Single Tray	•	•	10 × 96	790350
			Single Tray	•	•	10 × 96	790351
			Refill Tower	•	•	10 × 96	790352
			Refill Pack	•	•	1.5 × 96	790353
			Bulk in Box	•	•	1000	790354
10–1000 µl		71.5 mm	Single Tray	•	•	10 × 96	791000
			Single Tray	•	•	10 × 96	791001
			Refill Pack	•	•	10 × 96	791002
			Refill Pack	•	•	10 × 96	791003
			Bulk in Box	•	•	1000	791004
			Bulk in Box	•	•	400	791005
10–1000 µl Wide bore tip		68.5 mm	Single Tray	•	•	10 × 96	791020
			Single Tray	•	•	10 × 96	791021
			Bulk in Box	•	•	1000	791024
50–1200 µl		71.5 mm	Single Tray	•	•	10 × 96	791200
			Single Tray	•	•	10 × 96	791201
			Refill Pack	•	•	10 × 96	791202
			Refill Pack	•	•	10 × 96	791203
			Bulk in Box	•	•	1000	791204
50–1200 µl Extended		99 mm	Single Tray	•	•	10 × 96	791210
			Single Tray	•	•	10 × 96	791211
			Refill Pack	•	•	10 × 96	791212
			Refill Pack	•	•	10 × 96	791213



Volume Range		Length	Packaging	Purity Level RNase, DNase, endotoxin- free	Pre-steri- lized	Qty/Unit	Cat. No.
100–5000 µl		150 mm	Single Tray	•	•	50	780304
			Single Tray	•	•	50	780305
			Bulk in Box	•	•	100	780300
			Bulk in Carton	•	•	1000	780308
1–10 ml		155 mm	Bulk in Box	•	•	250	UH-780316
0.5–10 ml		242 mm	Bulk in Box	•	•	100	780310
Extra long tip for MidiPlus							

SafetySpace™ Filter Tips

Volume Range	Length	Packaging	Purity Level RNase, DNase, endotoxin- free	Pre-sterilized	Qty/Unit	Cat. No.
 0.1–10 µl	32 mm	Single Tray	•	•	10x96	790011F
 0.5–20 µl	51 mm	Single Tray	•	•	10x96	790021F
 2–120 µl	51 mm	Single Tray	•	•	10x96	790101F
 5–200 µl	52.5 mm	Single Tray	•	•	10x96	790201F
 5–200 µl	52.5 mm	Single Tray	•	•	10x96	790301F
 50–1000 µl	78 mm	Single Tray	•	•	10x96	791001F
 50–1200 µl	90 mm	Single Tray	•	•	10x96	791211F

For your guidance the tips are illustrated in the actual size.
Filter tips are not recommended to be used simultaneously with Safe-Con® filters.

Filter Tips with Regular Air Gap

Volume Range	Length	Packaging	Purity Level RNase, DNase, endotoxin- free	Pre-sterilized	Qty/Unit	Cat. No.
 0.5–10 µl	46 mm	Single Tray	•	•	10x96	783201
 10–500 µl	78 mm	Single Tray	•	•	10x100	783206

Empty Tip Boxes for Refill System (Tips and Trays are Not Included)

Item	Tip Type (Non-Filtered Tips)	Qty/Unit	Cat. No.
Empty Tip Box for Refill System	10, 250, 350 µl	10	790910
Empty Tip Box for Refill System	1000, 1200 µl	10	790920

Tip Compatibility Charts

			Optifit Tips, Non-filtered							SafetySpace™ Filter Tips								
Mechanical Pipettes			10 ⁶	10 Ext	200	350	1000	1000 WB	5000	10 000	10 ⁶	10 Ext ^{**}	20	120	200	300	500 ^{**}	1000
	Cat.-No.	µl																
miLINE 1-channel	Z25010	0.1-3	*	*														
	Z25020	0.5-10	*	*						*	*							
	Z25030	2-20			*													
	Z25050	10-100			*	*						*						
	Z25060	20-200			*	*						*	*					
	Z25070	100-1000					*	*									*	
	Z25080	500-5000						*										
	Z25090	1-10 ml							*									
miLINE 8-channel	Z25120	0.5-10	*	*							*	*						
	Z25130	5-100			*	*						*						
	Z25140	30-300			*	*							*					
miLINE 12-channel	Z25220	0.5-10	*	*							*	*						
	Z25230	5-100			*	*						*						
	Z25240	30-300			*	*							*					
Proline Plus 1-channel	Z28010	0.1-3	*	*							*	*						
	Z28020	0.5-10	*	*							*	*						
	Z28030	2-20			*													
	Z28040	5-50			*	*						*						
	Z28050	10-100			*	*						*	*					
	Z28060	20-200			*	*						*	*					
	Z28070	100-1000					*	*									*	
	Z28080	500-5000						*										
	Z28090	1-10 ml							*									
	Z28120	0.5-10	*	*							*	*						
Proline Plus 8-channel	Z28130	10-100			*	*						*						
	Z28140	30-300			*	*							*					
Proline Plus 12-channel	Z28220	0.5-10	*	*							*	*						
	Z28230	10-100			*	*						*						
	Z28240	30-300			*	*							*					

* Extended accuracy and precision with pre-calibrated 10 µl tips

** Use tips with regular air gap

			Optifit Tips, Non-filtered							SafetySpace™ Filter Tips								
Mechanical Pipettes			10 ⁶	10 Ext	200	350	1000	1000 WB	5000	10 000	10 ⁶	10 Ext ^{**}	20	120	200	300	500 ^{**}	1000
	Cat.-No.	µl																
Proline Plus Fixed Volume 1-channel	Z28515	5	*	*							*	*						
	Z28520	10	*	*							*	*						
	Z28530	20			*													
	Z28535	25			*								*					
	Z28545	50			*	*							*					
	Z28550	100			*	*							*					
	Z28560	200			*	*							*	*				
	Z28565	250			*	*							*	*			*	
	Z28567	500			*	*							*	*			*	
	Z28570	1000			*	*							*	*			*	
	Z28575	2000			*	*							*	*			*	
	Z28580	5000			*	*							*	*			*	
	Z28590	10 ml			*	*							*	*			*	
Proline 1-channel	Z20005	0.1-2.5	*	*							*	*						
	Z20000	0.5-10	*	*	*						*	*	*					
	Z20080	2-20			*								*					
	Z20020	5-50			*	*							*	*				
	Z20050	10-100			*	*							*	*	*			
	Z20070	20-200			*	*							*	*	*			
	Z20060	100-1000			*	*							*	*	*		*	
	Z20110	1000-5000			*	*							*	*	*		*	
	Proline 8-channel	Z20210	0.5-10	*	*							*	*					
		Z20230	5-50			*	*						*	*				*
		Z20240	50-300			*	*						*	*				*
Proline 12-channel	Z20310	0.5-10	*	*							*	*						
	Z20320	5-50			*	*						*	*				*	
	Z20340	50-300			*	*						*	*				*	
Proline Fixed Volume 1-channel	Z22001	5	*	*	*						*	*	*					
	Z22004	10	*	*	*						*	*	*					
	Z22010	20			*	*						*	*					
	Z22015	25			*	*						*	*					
	Z22020	50			*	*						*	*					
	Z22025	100			*	*						*	*	*			*	
	Z22030	200			*	*						*	*	*			*	
	Z22035	250			*	*						*	*	*			*	
	Z22040	500			*	*						*	*	*			*	
	Z22045	1000			*	*						*	*	*			*	
	Z22050	2000			*	*						*	*	*			*	
Z22055	5000			*	*						*	*	*			*		

* Extended accuracy and precision with pre-calibrated 10 µl tips

** Use tips with regular air gap

Electronic Pipettes			Optifit Tips, Non-filtered						SafetySpace™ Filter Tips													
			10*	10 Ext	200	350	1000	1000 WB	1200	1200 Ext	5000	10 800	10*	10 Ext**	20	120	200	300	500**	1000	1200	
	Cat. No.	µl																				
Picos 1-channel	735021	0.2-10	*	*																	*	*
	735041	5-120			*	*											*	*				
	735061	10-300					*	*														
	735081	50-1000						*	*													*
	735101	100-5000							*													
	735111	500-10000								*												
Picos 8-channel	735321	0.2-10	*	*																	*	*
	735341	5-120			*	*										*						
	735361	10-300				*												*				
	735381	50-1200					*	*											*			*
Picos 12-channel	735421	0.2-10	*	*																	*	*
	735441	5-120			*	*										*						
	735461	10-300				*												*				
	735481	50-1200					*	*											*			*
eLINE 1-channel	73001X	0.1-5	*	*																	*	*
	73002X	0.2-10	*	*																	*	*
	73004X	5-420			*	*										*						
	73006X	10-300				*												*				
	73008X	50-1000					*	*											*			*
	73010X	100-5000						*														
eLINE 8-channel	73032X	0.2-10	*	*																	*	*
	73034X	5-420			*	*										*						
	73036X	10-300				*												*				
	73038X	50-1200					*	*											*			*
eLINE 12-channel	73042X	0.2-10	*	*																	*	*
	73044X	5-420			*	*										*						
	73046X	10-300				*												*				
	73048X	50-1200					*	*											*			*

* Extended accuracy and precision with precision tip 10 µl tip

** Use tips with regular air gap

