

## Optifit Tips



# Optifit Tips and SafetySpace™ Filter Tips

## The perfect match for your pipette

In 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 maximum 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 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 molding machines. Molding 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 Biohit 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.biohit.com/tipquality](http://www.biohit.com/tipquality).





## Features and benefits

### Best fit – highest possible accuracy

- Perfect fitting and sealing with Biohit pipettes secure the highest possible accuracy and precision
- Compatible with Optiload feature in Biohit Picus, eLINE, mLINE and Proline Plus pipettes enabling ergonomic and light tip attachment and ejection
- Color-coding of the tip trays allows easy matching with a suitable color-coded Biohit pipette
- Compatible with most other pipette makes (see compatibility with other manufacturers' pipettes at [www.biohit.com](http://www.biohit.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-sterilized 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

## 100% sample delivery for better accuracy

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 precious sample wetting the filter. In turn, this secures 100% sample recovery and 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 (PE) 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  $\mu$ l to 1200  $\mu$ l and are packed in color-coded Single Tray racks. They are certified DNase, RNase and endotoxin-free and are e-beam pre-sterilized. Lot-specific purity certificates can be downloaded from [www.biohit.com](http://www.biohit.com).

### The SafetySpace™ Filter Tips are ideal for

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



## Packaging options



### SafetySpace™ Filter Tips

#### Single Tray racks

- Ten racks of 96 tips
- 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 - for safer laboratory work

- Ten racks of 96 tips
- Covers a large range of tip volumes from 10 µl to 5 ml
- Fully autoclavable at 121°C for 20 minutes



Bulk in Box



### Optifit Tips

#### Refill Towers

- Space-saving with 10x96 tips in one tower.
- 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

#### Bulk in Box












- Covers a large range of tip volumes from 10 µl to 10 ml
- Tips are fully autoclavable at 121°C for 20 minutes










### Single Refill Packs

- 10, 15 or 20 trays of 96 tips depending on tip volume
- 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

## Optifit Tips - Ordering details



Volume Range		Length	Packaging	Purity level RNase, DNase, Pre- endotoxin-free sterilized	Qty/unit	Cat. No.	FS Cat. No.	
● 0.1-10 µl		31.5 mm	Single Tray	•	10x96	790010	14-559-460	
			Single Tray	•	•	10x96	790011	14-559-461
			Refill Tower			10x96	790012	14-559-462
			Refill Pack	•	•	20x96	790013	14-559-463
			Bulk in Box			1000	790014	14-559-464
● 0.1-10 µl	Extended	46 mm	Single Tray	•	10x96	783210	14-559-465	
			Single Tray	•	•	10x96	783211	14-559-466
● 0.5-200 µl		51 mm	Single Tray	•	10x96	790200	14-559-467	
			Single Tray	•	•	10x96	790201	14-559-468
			Refill Tower			10x96	790202	14-559-469
			Refill Pack	•	•	15x96	790203	14-559-470
			Bulk in Box			1000	790204	14-559-471
● 5-350 µl		54 mm	Single Tray	•	10x96	790350	14-559-472	
			Single Tray	•	•	10x96	790351	14-559-473
			Refill Tower			10x96	790352	14-559-474
			Refill Pack	•	•	15x96	790353	14-559-475
			Bulk in Box			1000	790354	14-559-476
● 10-1000 µl		71.5 mm	Single Tray	•	10x96	791000	14-559-477	
			Single Tray	•	•	10x96	791001	14-559-478
			Refill Pack	•		10x96	791002	14-559-479
			Refill Pack	•	•	10x96	791003	14-559-480
			Bulk in Box			1000	791004	14-559-481
			Bulk in Box			400	791005	14-559-482
● 10-1000 µl	Wide bore tip	68.5 mm	Single Tray	•	10x96	791020	14-559-483	
			Single Tray	•	•	10x96	791021	14-559-484
			Bulk in Box			1000	791024	14-559-485
● 50-1200 µl		71.5 mm	Single Tray	•	10x96	791200	14-559-486	
			Single Tray	•	•	10x96	791201	14-559-487
			Refill Pack	•		10x96	791202	14-559-488
			Refill Pack	•	•	10x96	791203	14-559-489
			Bulk in Box			1000	791204	14-559-490
● 50-1200 µl	Extended	90 mm	Single Tray	•	10x96	791210	14-559-491	
			Single Tray	•	•	10x96	791211	14-559-492
			Refill Pack	•		10x96	791212	14-559-493
			Refill Pack	•	•	10x96	791213	14-559-494
● 100-5000 µl		150 mm	Single Tray	•	50	780304	14-559-495	
			Single Tray	•	•	50	780305	14-559-496
			Bulk in Box			100	780300	14-559-497
			Bulk in Carton			1000	780308	14-559-498
● 1-10 ml		161 mm	Bulk in Box		250	780315	14-559-499	
								
0.5-10 ml	Extra long tip for MidiPlus	242 mm	Bulk in Box		100	780310	14-559-500	
								

## SafetySpace™ Filter Tips – Ordering details

Volume Range	Length	Packaging	Purity level		Qty/unit	Cat. No.	FS Cat. No.
			RNase, DNase, Pre-endotoxin-free	sterilized			
● 0.1-10 µl 	32 mm	Single Tray	•	•	10x96	790011F	14-559-506
● 0.5-20 µl 	51 mm	Single Tray	•	•	10x96	790021F	14-559-507
● 2-120 µl 	51 mm	Single Tray	•	•	10x96	790101F	14-559-508
● 5-200 µl 	52.5 mm	Single Tray	•	•	10x96	790201F	14-559-509
● 5-300 µl 	52.5 mm	Single Tray	•	•	10x96	790301F	14-559-510
● 50-1000 µl 	78 mm	Single Tray	•	•	10x96	791001F	14-559-511
● 50-1200 µl 	90 mm	Single Tray	•	•	10x96	791211F	14-559-512

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

## Filter Tips with regular air gap – Ordering details

Volume Range	Length	Packaging	Purity level		Qty/unit	Cat. No.	FS Cat. No.
			RNase, DNase, Pre-endotoxin-free	sterilized			
● 0.1-10 µl 	46 mm	Single Tray	•	•	10x96	783201	14-559-513
● 10-500 µl 	78 mm	Single Tray	•	•	10x100	783206	14-559-514

## Empty Tip Boxes for Refill System – Ordering details (tips and trays are not included)

Item	Tip type (non-filtered tips)	Qty/Unit	Cat. No.	FS Cat. No.
Empty Tip Box for Refill System	10, 200, 350 µl	10	790910	14-559-515
Empty Tip Box for Refill System	1000, 1200 µl	10	790920	14-559-516



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