

# Pipette Tips

## 1. Pipette Tips from Greiner Bio-One

Pipette tips are a key component in day-to-day life science research and need to be of a high quality to ensure confidence and consistency in pipetting results. Our tips are manufactured from high-grade polypropylene to give the optimum in performance and fit. Additionally, polypropylene has a high breaking strength, is dimensionally stable, heat-resistant up to approx. +140 °C, i.e. is autoclavable, and cold-resistant down to -190 °C. All coloured Greiner Bio-One pipette tips are manufactured exclusively with heavy metal free dyes. Pipette tips from Greiner Bio-One are therefore free of heavy metals.

Versions available are:

- Micro tips (0.5 – 20 µl)
- 200 µl tips (10 – 300 µl)
- 1000 µl tips (100 – 1000 µl)
- Macro tip (5 ml)
- Gel-load tips
- Conductive tips
- Filter tips

## 2. Choice of Packaging

### Bags (Bulk)

In addition to pipette tips in racks, all standard pipette tips without filters are also available bulk-packed in polyethylene bags.

Pipette tips in polyethylene bags are cheapest for the customer but are also the most work-intensive.

It is not possible to autoclave the tips in the bag, as the polyethylene bag is not heat-resistant. However, the tips can be autoclaved in racks. We will be glad to supply you with empty racks (Fig. 1 – Fig. 3). On the following pages, the Cat.-No. of the rack is listed with the corresponding pipette tips.

### Racks

A more convenient solution often taking up less bench space are pre-packed tips that minimise any risk of contamination and make for easy “pick up”. Racked tips can be supplied pre-sterilised by irradiation or non-sterile which allows for autoclaving as and when required.

### EasyLoad® Racks

EasyLoad® is a simple, time- and space-saving refill system for pipette tips. The refill system also contains EasyLoad® racks (EL-racks) specially developed for this purpose. The modularly constructed EasyLoad® racks are available in three different sizes (for 10 µl, 200 µl and 1000 µl tips) (Fig. 4).

They consist of a polypropylene box with attached lid and a polypropylene insert plate. Users of the EasyLoad® refill system (→ p. 6 | 14) will find the insert plate included in the refill unit. The EasyLoad® racks are also particularly well suited for use with multi-channel pipettors, since the individual tips in the rack can be picked up with the same force. For “self-sticking” of tips special EasyLoad® racks with an insert plate can be ordered (Fig. 4). The insert plate can also be ordered separately.

The following standard racks (ST-racks) and EasyLoad® racks (EL-racks) are available (Fig. 1 – Fig. 4):

**Figure 1:**  
White standard rack (ST-rack)



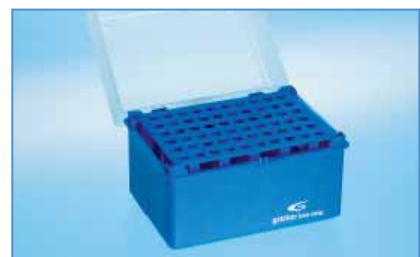
**Figure 2:**  
Yellow standard rack (ST-rack)



**Figure 3:**  
Blue standard rack (ST-rack)



**Figure 4:**  
Blue EasyLoad® rack for 1000 µl tips



## 3. Quality Assurance

Pipette tips from Greiner Bio-One are manufactured under production conditions certified as conforming to the ISO 9001 standard. They are also tested for conformance with the international standard DIN ISO 8655 (specifically ISO 8655-1, ISO 8655-2 and ISO 8655-6).

Greiner Bio-One exclusively uses carefully inspected raw materials for the production of pipette tips and carries out continual in-process checks as well as laboratory tests to ensure that all tips meet the standards listed above. In addition, the pipette tips are constantly monitored for a precise fit on the commonly used pipettors.

## Micro Pipette Tips (0.5 – 20 µl)

Micro pipette tips with a pipetting volume of up to 20 µl are suitable for the precise pipetting of the smallest possible liquid volumes as a result of their small size and thus small dead

volume. Greiner Bio-One currently offers three types of micro pipette tips (micro tip P10, micro tip P10 graduated, crystal tip).



### Micro Pipette Tips (0.5 – 20 µl)

#### 20 µl Crystal Pipette Tips

ideally suited for Eppendorf®

#### 10 µl Micro Pipette Tips ideally

suited for Gilson®



Table of Compatibility, Technical Appendix p. A I 12 f.

|                                  |  |  |  |
|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cat.-No.                         | 765 290                                                                           | 765 280                                                                           | 765 271                                                                             |
| Description                      | crystal tip                                                                       | crystal tip                                                                       | crystal tip                                                                         |
|                                  | ideally suited for <b>Eppendorf®</b> Reference, Research pro                      |                                                                                   |                                                                                     |
| Volume [µl]                      | 0.5 – 20                                                                          | 0.5 – 20                                                                          | 0.5 – 20                                                                            |
| Colour                           | natural                                                                           | natural                                                                           | natural                                                                             |
| Graduation                       | -                                                                                 | -                                                                                 | -                                                                                   |
| Sterile                          | -                                                                                 | -                                                                                 | +                                                                                   |
| Quantity per packaging unit/case | 1000/5000                                                                         | 96/4800                                                                           | 96/4800                                                                             |
| Packaging unit                   | bulk                                                                              | yellow ST-rack                                                                    | yellow ST-rack                                                                      |
| Matching rack for bulkware tips  | Cat.-No. 973 272                                                                  | -                                                                                 | -                                                                                   |

|                                  |  |  |  |  |  |  |
|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Cat.-No.                         | 771 290                                                                             | 771 287                                                                             | 771 289                                                                             | 771 291                                                                              | 771 280                                                                               | 771 281                                                                               |
| Description                      | P10 standard                                                                        | P10 standard                                                                        | P10 standard                                                                        | P10 graduated                                                                        | P10 graduated                                                                         | P10 graduated                                                                         |
|                                  | ideally suited for <b>Gilson®</b> Pipetman P2, P10, U10                             |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| Volume [µl]                      | 0.5 – 10                                                                            | 0.5 – 10                                                                            | 0.5 – 10                                                                            | 0.5 – 10                                                                             | 0.5 – 10                                                                              | 0.5 – 10                                                                              |
| Colour                           | natural                                                                             | natural                                                                             | natural                                                                             | natural                                                                              | natural                                                                               | natural                                                                               |
| Graduation                       | -                                                                                   | -                                                                                   | -                                                                                   | +                                                                                    | +                                                                                     | +                                                                                     |
| Sterile                          | -                                                                                   | -                                                                                   | +                                                                                   | -                                                                                    | -                                                                                     | +                                                                                     |
| Quantity per packaging unit/case | 1000/5000                                                                           | 96/4800                                                                             | 96/4800                                                                             | 1000/5000                                                                            | 96/4800                                                                               | 96/4800                                                                               |
| Packaging unit                   | bulk                                                                                | white ST-rack                                                                       | white ST-rack                                                                       | bulk                                                                                 | EL-rack                                                                               | EL-rack                                                                               |
| Matching rack for bulkware tips  | Cat.-No. 973 276                                                                    | -                                                                                   | -                                                                                   | Cat.-No. 941 305                                                                     | -                                                                                     | -                                                                                     |

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200 µl Pipette Tips (10 – 300 µl)



**100 µl / 200 µl / 300 µl Pipette Tips**

100 µl Pipette Tips ideally suited for Eppendorf®

200 µl Pipette Tips ideally suited for Gilson®

300 µl Pipette Tips ideally suited for Oxford®

▶ Table of Compatibility, Technical Appendix p. A I 12 f.

**100 µl Pipette Tip ideally suited for Eppendorf®**

This pipette tip is recommended for Eppendorf® pipettors. It has a bevelled edge, which increases pipetting accuracy. The pipette tip can be easily distinguished from the pipette tip recommended for Gilson® pipettors due to its shorter tip collar.

**200 µl Pipette Tip ideally suited for Gilson®**

This pipette tip was developed for Gilson® pipettors. Its liquid end is bevelled, the contact surface of the pipetted liquids is reduced and the pipetting accuracy increases, since less liquid can remain on the pipette tip.

**300 µl Pipette Tip ideally suited for Oxford®**

This pipette tip was developed for Oxford® pipettors.

|                                  |  |  |  |  |
|----------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cat.-No.                         | 685 295                                                                           | 685 290                                                                            | 685 280                                                                             | 685 261                                                                             |
|                                  | ideally suited for <b>Eppendorf®</b> Reference, Research, Research pro            |                                                                                    |                                                                                     |                                                                                     |
| Volume [µl]                      | 10 – 100                                                                          | 10 – 100                                                                           | 10 – 100                                                                            | 10 – 100                                                                            |
| Colour                           | natural                                                                           | yellow                                                                             | yellow                                                                              | yellow                                                                              |
| Graduation                       | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   |
| Sterile                          | -                                                                                 | -                                                                                  | -                                                                                   | +                                                                                   |
| Quantity per packaging unit/case | 500/15000                                                                         | 500/15000                                                                          | 96/4800                                                                             | 96/4800                                                                             |
| Packaging unit                   | bulk                                                                              | bulk                                                                               | yellow ST-rack                                                                      | yellow ST-rack                                                                      |
| Matching rack for bulkware tips  | Cat.-No. 973 202                                                                  | Cat.-No. 973 202                                                                   | -                                                                                   | -                                                                                   |

|                                  |                                                                                              |                                                                                       |                                                                                       |
|----------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                  |         |  |  |
| Cat.-No.                         | 739 290                                                                                      | 739 280                                                                               | 739 261                                                                               |
|                                  | ideally suited for <b>Gilson®</b> Pipetman<br>P20, P100, P200, F5, F10, F25, F50, F200, U200 |                                                                                       |                                                                                       |
| Volume [µl]                      | 10 – 200                                                                                     | 10 – 200                                                                              | 10 – 200                                                                              |
| Colour                           | yellow                                                                                       | yellow                                                                                | yellow                                                                                |
| Graduation                       | -                                                                                            | -                                                                                     | -                                                                                     |
| Sterile                          | -                                                                                            | -                                                                                     | +                                                                                     |
| Quantity per packaging unit/case | 500/15000                                                                                    | 96/4800                                                                               | 96/4800                                                                               |
| Packaging unit                   | bulk                                                                                         | yellow ST-rack                                                                        | yellow ST-rack                                                                        |
| Matching rack for bulkware tips  | Cat.-No. 973 270                                                                             | -                                                                                     | -                                                                                     |

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728 280  
728 290739 263  
739 264  
739 282  
739 291739 265  
739 296**200 µl / 250 µl Universal Pipette Tips****200 µl Universal Pipette Tips****200 µl Universal Pipette Tips, S-Style****250 µl Universal Pipette Tips**
 Table of Compatibility, Technical Appendix p. A I 12 f.

In many research laboratories, pipettors from a variety of different manufacturers are used at the same time, for example Gilson®, Biohit® and Eppendorf®. The universal pipette tip makes it possible to use the same pipette tip for all pipettors and thus simplifies storage, as well as saving time when reordering.

**200 µl Universal Pipette Tips**

Graduations (10 µl, 50 µl and 100 µl) enable the user to better check the pipetted volume.

**200 µl S-Style Pipette Tips**

200 µl universal pipette tip without graduation.

**250 µl Universal Pipette Tips**

| Cat.-No.                         | 739 291                                        | 739 263        | 739 264        | 739 282   | 739 296            | 739 265        |
|----------------------------------|------------------------------------------------|----------------|----------------|-----------|--------------------|----------------|
| Description                      | universal                                      | universal      | universal      | universal | universal          | universal      |
| Suitable for                     | Biohit®; Brand®; Eppendorf®; Gilson®; Socorex® |                |                |           |                    |                |
| Volume [µl]                      | 10 – 200                                       | 10 – 200       | 10 – 200       | 10 – 200  | 10 – 200           | 10 – 200       |
| Colour                           | natural                                        | natural        | natural        | natural   | yellow             | yellow         |
| Graduation                       | +                                              | +              | +              | +         | +                  | +              |
| Sterile                          | -                                              | -              | +              | -         | -                  | -              |
| Quantity per packaging unit/case | 500/15000                                      | 96/4800        | 96/4800        | 96/960    | 500/15000          | 96/4800        |
| Packaging unit                   | bulk                                           | yellow ST-rack | yellow ST-rack | EL-rack   | bulk               | yellow ST-rack |
| Matching rack for bulkware tips  | Cat.-No. 941 315 -                             |                | -              | -         | Cat.-No. 941 315 - |                |



| Cat.-No.                         | 728 290                                        | 728 280        | 739 250                     | 739 255   |
|----------------------------------|------------------------------------------------|----------------|-----------------------------|-----------|
| Description                      | universal                                      | universal      | universal                   | universal |
| Suitable for                     | Biohit®; Brand®; Eppendorf®; Gilson®; Socorex® |                | Brand®; Eppendorf®; Gilson® |           |
| Special feature                  | S-Style                                        | S-Style        | -                           | -         |
| Volume [µl]                      | 10 – 200                                       | 10 – 200       | 10 – 250                    | 10 – 250  |
| Colour                           | natural                                        | natural        | natural                     | natural   |
| Graduation                       | -                                              | -              | +                           | +         |
| Sterile                          | -                                              | -              | -                           | -         |
| Quantity per packaging unit/case | 500/15000                                      | 96/4800        | 500/15000                   | 96/3840   |
| Packaging unit                   | bulk                                           | yellow ST-rack | bulk                        | F-rack    |
| Matching rack for bulkware tips  | Cat.-No. 973 270                               |                | Cat.-No. 941 315 -          |           |

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## 1000 µl Pipette Tips

### 1000 µl Universal Pipette Tips

▶ Table of Compatibility, Technical Appendix p. A I 12 f.

#### 1000 µl Universal Tips graduated

This pipette tip type is recommended when pipettors from different manufacturers are used at the same time. The graduation makes it easier to check the pipetted volume.

|                                  |  |  |  |  |  |
|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cat.-No.                         | 740 291                                                                           | 740 263                                                                           | 740 264                                                                             | 740 296                                                                             | 740 265                                                                             |
| Description                      | universal                                                                         | universal                                                                         | universal                                                                           | universal                                                                           | universal                                                                           |
| Suitable for                     | Brand®; Eppendorf®; Finnpiquette®; Gilson®; Socorex®                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Volume [µl]                      | 200 – 1000                                                                        | 200 – 1000                                                                        | 200 – 1000                                                                          | 200 – 1000                                                                          | 200 – 1000                                                                          |
| Colour                           | natural                                                                           | natural                                                                           | natural                                                                             | blue                                                                                | blue                                                                                |
| Graduation                       | +                                                                                 | +                                                                                 | +                                                                                   | +                                                                                   | +                                                                                   |
| Sterile                          | -                                                                                 | -                                                                                 | +                                                                                   | -                                                                                   | -                                                                                   |
| Quantity per packaging unit/case | 250/5000                                                                          | 60/2400                                                                           | 60/2400                                                                             | 250/5000                                                                            | 60/2400                                                                             |
| Packaging unit                   | bulk                                                                              | EL-rack                                                                           | EL-rack                                                                             | bulk                                                                                | EL-rack                                                                             |
| Matching rack for bulkware tips  | Cat.-No. 941 325                                                                  | -                                                                                 | -                                                                                   | Cat.-No. 941 325                                                                    | -                                                                                   |

## 5 ml Macro Pipette Tip



|                       |                   |
|-----------------------|-------------------|
| Cat.-No.              | 745 290           |
| Description           | macro pipette tip |
| Suitable for          | Gilson® P5000     |
| Volume [ml]           | 1 – 5             |
| Colour                | natural           |
| Graduation            | -                 |
| Sterile               | -                 |
| Quantity per bag/case | 250/2500          |

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Gel-Load Pipette Tips



Gel-Load Pipette Tips

Table of Compatibility, Technical Appendix p. A I 12 f.

- Characterised by an elongated end
- Ideal for numerous molecular biological applications, especially for filling the slots of sequencing, PCR and protein electrophoresis gels

PCR

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic

non-  
cytotoxic



|                                  |                                                                                                     |              |
|----------------------------------|-----------------------------------------------------------------------------------------------------|--------------|
| Cat.-No.                         | 770 290                                                                                             | 770 291      |
| Description                      | gel-load                                                                                            | gel-load     |
| Suitable for                     | Anthos®; Biohit®; Brand®; Costar®; Eppendorf®; Finnpiquette®; Gilson®; Human®; Moltronic®; Socorex® |              |
| Volume [µl]                      | 10 – 200                                                                                            | 10 – 200     |
| Colour                           | natural                                                                                             | natural      |
| Sterile                          | -                                                                                                   | -            |
| Quantity per packaging unit/case | 1000/10000                                                                                          | 96/3840      |
| Packaging unit                   | bulk                                                                                                | blue ST-rack |



|                                  |                                       |
|----------------------------------|---------------------------------------|
| Cat.-No.                         | 775 288                               |
| Description                      | gel-load filter tip                   |
| Special feature                  | low-seated filter                     |
| Suitable for                     | Brand®; Eppendorf®; Gilson®; Socorex® |
| Volume [µl]                      | 20                                    |
| Colour                           | natural                               |
| Graduation                       | -                                     |
| Sterile                          | +                                     |
| Quantity per packaging unit/case | 96/960                                |
| Packaging unit                   | F-rack                                |

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## Conductive Pipette Tips



### Conductive Pipette Tips

Conductive tips are used to prevent carryover in automated pipetting robots. The addition of graphite to the raw material polypropylene makes the pipette tips electrically conductive.

By measuring electric currents, the filling level can be determined in sample and reagent containers, so that the depth of immersion of the tip can be adjusted to the filling level.

|                                  |  |  |
|----------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cat.-No.                         | <b>685 296</b>                                                                    | <b>764 280</b>                                                                      |
| Suitable for                     | Eppendorf®                                                                        | -                                                                                   |
| Special feature                  | -                                                                                 | slim style                                                                          |
| Volume [µl]                      | 10 – 200                                                                          | 10 – 240                                                                            |
| Filter                           | -                                                                                 | -                                                                                   |
| Colour                           | black                                                                             | black                                                                               |
| Sterile                          | -                                                                                 | -                                                                                   |
| Quantity per packaging unit/case | 500/15000                                                                         | 900/7200                                                                            |
| Packaging unit                   | bulk                                                                              | bulk                                                                                |
| Matching rack for bulkware tips  | Cat.-No. 973 202                                                                  | -                                                                                   |

|                                  |  |
|----------------------------------|---------------------------------------------------------------------------------------|
| Cat.-No.                         | <b>686 296</b>                                                                        |
| Suitable for                     | -                                                                                     |
| Volume [µl]                      | 200 – 1000                                                                            |
| Filter                           | -                                                                                     |
| Colour                           | black                                                                                 |
| Sterile                          | -                                                                                     |
| Quantity per packaging unit/case | 250/5000                                                                              |
| Packaging unit                   | bulk                                                                                  |
| Matching rack for bulkware tips  | Cat.-No. 974 280                                                                      |

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Filter Tips



Filter Tips

Table of Compatibility, Technical Appendix p. A I 12 f.

Pipette tips with filter inserts prevent contamination with liquids and aerosols during the pipetting process. In combination with conventional pipettors, Greiner Bio-One filter tips prevent the aspiration of particles into the interior of the pipettor. This minimises the danger of unwanted cross-contamination. The special ultra-micro filter made of hydrophobic polyethylene has a pore size of approx. 10 microns and acts as a reliable barrier against the transfer of aerosols into the shaft of the pipettor.

Greiner Bio-One filter tips:

- Are recommended for work with DNA and RNA, and when handling radioactive material
- Are available in the volume ranges 0.5 µl to 1000 µl
- Can be used with all standard pipettors
- Are free of detectable DNase / RNase and are **sterilised by irradiation**
- Are available in boxes of 96 pieces (Fig. 5) or 60 pieces in the case of 1000 µl tips
- Produced and certified according to DIN ISO 8655

**Micro Filter Tips 0.5 – 20 µl**

Micro tips with a pipetting volume of up to 20 µl are suitable for the precise pipetting of the smallest possible liquid volumes as a result of their small size and thus small dead volume.

**Filter Tips 10-200 µl**  
These tips can be used for pipetting volumes of 10 - 200 µl.

**Filter Tips 200-1000 µl**  
These tips can be used for pipetting volumes of 200 - 1000 µl.



Figure 5:  
Filter tip rack (F-rack)

PCR

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic

non-  
cytotoxic

0.5 – 20 µl

|                                  |                                                                                     |                                                                                     |                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                  |  |  |  |
| Cat.-No.                         | 765 288                                                                             | 771 288                                                                             | 774 288                                                                               |
| Description                      | micro crystal tip                                                                   | micro tip P10                                                                       | standard tip                                                                          |
| Ideally suited for               | Eppendorf®                                                                          | Gilson®                                                                             | universal                                                                             |
|                                  | Eppendorf® Reference<br>Eppendorf® Research<br>Eppendorf® Research pro              | Gilson® Pipetman P2, P10, U10                                                       | Brand®; Biohit®; Eppendorf®;<br>Gilson®; Socorex®                                     |
| Volume [µl]                      | 10                                                                                  | 10                                                                                  | 20                                                                                    |
| Colour                           | natural                                                                             | natural                                                                             | natural                                                                               |
| Graduation                       | -                                                                                   | -                                                                                   | -                                                                                     |
| Sterile                          | +                                                                                   | +                                                                                   | +                                                                                     |
| Quantity per packaging unit/case | 96/960                                                                              | 96/960                                                                              | 96/960                                                                                |
| Packaging unit                   | F-rack                                                                              | F-rack                                                                              | F-rack                                                                                |

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## 10 – 200 µl



| Cat.-No.                         | 772 288                                              | 739 288                                 |
|----------------------------------|------------------------------------------------------|-----------------------------------------|
| Description                      | filter tip                                           | universal filter tip                    |
| Ideally suited for               | universal                                            | universal                               |
| Suitable for                     | Brand®; Biohit®;<br>Eppendorf®; Gilson®;<br>Socorex® | Brand®; Biohit®;<br>Eppendorf®; Gilson® |
| Volume [µl]                      | 100                                                  | 200                                     |
| Colour                           | natural                                              | natural                                 |
| Graduation                       | -                                                    | +                                       |
| Sterile                          | +                                                    | +                                       |
| Quantity per packaging unit/case | 96/960                                               | 96/960                                  |
| Packaging unit                   | F-rack                                               | F-rack                                  |

## 100 – 1000 µl



| Cat.-No.                         | 750 288                                       | 740 288               |
|----------------------------------|-----------------------------------------------|-----------------------|
| Description                      | filter tip                                    | universal filter tip  |
| Ideally suited for               | <b>Eppendorf®</b>                             | universal             |
| Suitable for                     | Biohit®<br>Finnpipette®; Gilson®;<br>Socorex® | Finnpipette®; Gilson® |
| Volume [µl]                      | 1000                                          | 1000                  |
| Colour                           | natural                                       | natural               |
| Graduation                       | -                                             | -                     |
| Sterile                          | +                                             | +                     |
| Quantity per packaging unit/case | 60/600                                        | 60/600                |
| Packaging unit                   | F-rack                                        | F-rack                |

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EasyLoad®



741 045  
741 050

EasyLoad®

- Autoclavable EasyLoad® racks
- Sterile and non-sterile option
- Racks are stackable
- Colour-coded boxes
- Positioning guides make it easier to place the EasyLoad® refill units on the racks

EasyLoad® is a simple, time- and space-saving refill system for standard pipette tips.

- EasyLoad® 10 (micro 10 µl, graduated)
- EasyLoad® 200 (universal 200 µl, thin-walled, graduated)
- EasyLoad® 1000 (universal 1000 µl, thin-walled, graduated)



The design of the rack's interior increases stability during autoclaving and when pipette tips are being used with multi-channel pipettors.

| Cat.-No.                              | 741 015      | 741 020      |
|---------------------------------------|--------------|--------------|
| Description                           | EasyLoad® 10 | EasyLoad® 10 |
| Volume [µl]                           | 10           | 10           |
| Suitable for single-channel pipettors | Gilson®      | Gilson®      |
| Colour                                | natural      | natural      |
| Graduation                            | +            | +            |
| Sterile                               | -            | +            |
| Quantity per refill box/case          | 960/5760     | 960/5760     |
| Matching EasyLoad® rack, Cat.-No.     | 941 300      | 941 300      |

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| Cat.-No.                              | 741 000                                              | 741 061       | 741 065       | 741 070       | 741 010                                          |
|---------------------------------------|------------------------------------------------------|---------------|---------------|---------------|--------------------------------------------------|
| Description                           | EasyLoad® 200                                        | EasyLoad® 200 | EasyLoad® 200 | EasyLoad® 200 | EasyLoad® 200, starter kit                       |
| Volume [µl]                           | 200                                                  | 200           | 200           | 200           | 200                                              |
| Suitable for single-channel pipettors | Brand®; Eppendorf®; Finnpiquette®; Gilson®; Socorex® |               |               |               |                                                  |
| Suitable for multi-channel pipettors  | Brand®; Gilson®; Eppendorf®; Socorex®                |               |               |               |                                                  |
| Colour                                | natural                                              | natural       | yellow        | yellow        | yellow                                           |
| Graduation                            | +                                                    | +             | +             | +             | +                                                |
| Sterile                               | -                                                    | +             | -             | +             | -                                                |
| Quantity per refill box/case          | 960/5760                                             | 960/5760      | 960/5760      | 960/5760      | 2 boxes EasyLoad® 200,<br>10 EasyLoad® 200 racks |
| Matching EasyLoad® rack, Cat.-No.     | 941 310                                              | 941 310       | 941 310       | 941 310       |                                                  |

| Cat.-No.                              | 741 035                                              | 741 040        | 741 045        | 741 050        |
|---------------------------------------|------------------------------------------------------|----------------|----------------|----------------|
| Description                           | EasyLoad® 1000                                       | EasyLoad® 1000 | EasyLoad® 1000 | EasyLoad® 1000 |
| Volume [µl]                           | 100 – 1000                                           | 100 – 1000     | 100 – 1000     | 100 – 1000     |
| Suitable for single-channel pipettors | Brand®; Eppendorf®; Finnpiquette®; Gilson®; Socorex® |                |                |                |
| Colour                                | natural                                              | natural        | blue           | blue           |
| Graduation                            | +                                                    | +              | +              | +              |
| Sterile                               | -                                                    | +              | -              | +              |
| Quantity per refill box/case          | 360/2160                                             | 360/2160       | 360/2160       | 360/2160       |
| Matching EasyLoad® rack, Cat.-No.     | 941 320                                              | 941 320        | 941 320        | 941 320        |

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# Sapphire Pipette & Filter Tips

Greiner Bio-One offers a new range of pipette and filter tips. The product family Sapphire comprises standard pipette tips, standard filter tips, low retention pipette tips and low retention filter tips. All tips are transparent, graduated, allow precise and comfortable pipetting with

maximal recovery and are free of detectable DNase, RNase, human DNA and are non-pyrogenic. The Sapphire pipette and filter tips can be used with all common pipettors.

## Sapphire Pipette Tips



### Pipette Tips

10 µl / 300 µl / 1250 µl

- Racks can be ordered separately
- Table of Compatibility, Technical Appendix p. A I 14 f.
- Graduation for perfect visual control of the liquid transfer
- Thin-walled top of the tips for reliable fit and optimal seal
- Tips and racks are autoclavable
- Extended 10 µl tip for better recovery of small sample volumes
- User-friendly and stackable racks

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic

|                                  |  |  |  |  |  |  |
|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Cat.-No.                         | 771 254                                                                             | 771 257                                                                             | 771 250                                                                             | 738 254                                                                               | 738 257                                                                               | 738 250                                                                               |
| Volume [µl]                      | 10                                                                                  | 10                                                                                  | 10                                                                                  | 300                                                                                   | 300                                                                                   | 300                                                                                   |
| Colour                           | natural                                                                             | natural                                                                             | natural                                                                             | natural                                                                               | natural                                                                               | natural                                                                               |
| Graduation                       | +                                                                                   | +                                                                                   | +                                                                                   | +                                                                                     | +                                                                                     | +                                                                                     |
| Sterile                          | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| Quantity per packaging unit/case | 96/4800                                                                             | 96/4800                                                                             | 1000/10000                                                                          | 96/4800                                                                               | 96/4800                                                                               | 1000/10000                                                                            |
| Packaging unit                   | rack                                                                                | refill unit                                                                         | bulk                                                                                | rack                                                                                  | refill unit                                                                           | bulk                                                                                  |
| Matching rack                    | -                                                                                   | Cat.-No. 970 210                                                                    | Cat.-No. 970 210                                                                    | -                                                                                     | Cat.-No. 970 230                                                                      | Cat.-No. 970 230                                                                      |

|                                  |  |  |  |
|----------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Cat.-No.                         | 750 254                                                                              | 750 257                                                                               | 750 250                                                                               |
| Volume [µl]                      | 1250                                                                                 | 1250                                                                                  | 1250                                                                                  |
| Colour                           | natural                                                                              | natural                                                                               | natural                                                                               |
| Graduation                       | +                                                                                    | +                                                                                     | +                                                                                     |
| Sterile                          | -                                                                                    | -                                                                                     | -                                                                                     |
| Quantity per packaging unit/case | 96/3840                                                                              | 96/3840                                                                               | 768/7680                                                                              |
| Packaging unit                   | rack                                                                                 | refill unit                                                                           | bulk                                                                                  |
| Matching rack                    | -                                                                                    | Cat.-No. 970 250                                                                      | Cat.-No. 970 250                                                                      |

## Sapphire Low Retention Pipette Tips

The Sapphire Low Retention Pipette Tips feature specially optimised surface properties for maximum precision. Because no liquid remains in the tip, pipetting is virtually residue-free.

This boosts precision and the usable volume. It also prevents the wasting of valuable sample material.



### Low Retention Pipette Tips

10 µl / 300 µl / 1250 µl

- ▶ Racks can be ordered separately
- ▶ Table of Compatibility, Technical Appendix p. A I 14 f.
- Low retention surface properties for high recovery rate and maximum precision
- Graduation for perfect visual control of the liquid transfer
- Thin-walled top of the tips for reliable fit and optimal seal
- Tips and racks are autoclavable
- Extended 10 µl tip for better recovery of small sample volumes
- User-friendly and stackable racks

New

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic

|                                  |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                  |  |  |  |  |  |  |
| Cat.-No.                         | 771 255                                                                            | 771 258                                                                            | 738 255                                                                            | 738 258                                                                              | 750 255                                                                              | 750 258                                                                              |
| Volume [µl]                      | 10                                                                                 | 10                                                                                 | 300                                                                                | 300                                                                                  | 1250                                                                                 | 1250                                                                                 |
| Special feature                  | low retention                                                                      | low retention                                                                      | low retention                                                                      | low retention                                                                        | low retention                                                                        | low retention                                                                        |
| Colour                           | natural                                                                            | natural                                                                            | natural                                                                            | natural                                                                              | natural                                                                              | natural                                                                              |
| Graduation                       | +                                                                                  | +                                                                                  | +                                                                                  | +                                                                                    | +                                                                                    | +                                                                                    |
| Sterile                          | -                                                                                  | -                                                                                  | -                                                                                  | -                                                                                    | -                                                                                    | -                                                                                    |
| Quantity per packaging unit/case | 96/4800                                                                            | 96/4800                                                                            | 96/4800                                                                            | 96/4800                                                                              | 96/3840                                                                              | 96/3840                                                                              |
| Packaging unit                   | rack                                                                               | refill unit                                                                        | rack                                                                               | refill unit                                                                          | rack                                                                                 | refill unit                                                                          |
| Matching rack                    | -                                                                                  | Cat.-No. 970 210                                                                   | -                                                                                  | Cat.-No. 970 230                                                                     | -                                                                                    | Cat.-No. 970 250                                                                     |

|                                     |
|-------------------------------------|
| 1 Cell/<br>Tissue Culture           |
| 2 HTS-<br>Microplates               |
| 3 Immunology/<br>HLA                |
| 4 Microbiology/<br>Bacteriology     |
| 5 Tubes/Multi-<br>Purpose Beakers   |
| 6 Liquid<br>Handling                |
| 7 Molecular<br>Biology              |
| 8 Protein<br>Crystallisation        |
| 9 Separation                        |
| 10 Biochips/<br>Microfluidics       |
| 11 Cryo-<br>Technics                |
| 12 Lids/Sealers/<br>CapMats         |
| 13 Reaction Tubes/<br>Analyser Cups |
| 14 Accessories                      |

Sapphire Filter Tips



Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic

Filter Tips  
Low Retention Filter Tips

10 µl / 20 µl / 300 µl / 1250 µl

- Racks can be ordered separately
- Table of Compatibility, Technical Appendix p. A I 14 f.

- Prevent contamination with liquids and aerosols during pipetting
- Are recommended for work with DNA, RNA, and when handling radioactive material
- Graduation for perfect visual control of the liquid transfer
- Thin-walled top of the tips for reliable fit and optimal seal
- Low retention tips for high recovery rate and maximum precision

Filter Tips

|                                  |  |  |  |  |  |
|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cat.-No.                         | 771 261                                                                           | 771 260                                                                           | 773 261                                                                           | 738 261                                                                             | 738 260                                                                             |
| Volume [µl]                      | 10                                                                                | 10                                                                                | 20                                                                                | 300                                                                                 | 300                                                                                 |
| Colour                           | natural                                                                           | natural                                                                           | natural                                                                           | natural                                                                             | natural                                                                             |
| Graduation                       | +                                                                                 | +                                                                                 | +                                                                                 | +                                                                                   | +                                                                                   |
| Sterile                          | +                                                                                 | +                                                                                 | +                                                                                 | +                                                                                   | +                                                                                   |
| Quantity per packaging unit/case | 96/960                                                                            | 1000                                                                              | 96/960                                                                            | 96/960                                                                              | 1000                                                                                |
| Packaging unit                   | rack                                                                              | bulk                                                                              | rack                                                                              | rack                                                                                | bulk                                                                                |
| Matching rack                    | -                                                                                 | Cat.-No. 970 210                                                                  | -                                                                                 | -                                                                                   | Cat.-No. 970 230                                                                    |

|                                  |  |  |
|----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Cat.-No.                         | 750 261                                                                               | 750 260                                                                               |
| Volume [µl]                      | 1250                                                                                  | 1250                                                                                  |
| Colour                           | natural                                                                               | natural                                                                               |
| Graduation                       | +                                                                                     | +                                                                                     |
| Sterile                          | +                                                                                     | +                                                                                     |
| Quantity per packaging unit/case | 96/768                                                                                | 768                                                                                   |
| Packaging unit                   | rack                                                                                  | bulk                                                                                  |
| Matching rack                    | -                                                                                     | Cat.-No. 970 250                                                                      |



Low Retention Filter Tips

|                                  |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                  |  |  |  |  |
| Cat.-No.                         | 771 265                                                                           | 773 265                                                                           | 738 265                                                                             | 750 265                                                                             |
| Volume [µl]                      | 10                                                                                | 20                                                                                | 300                                                                                 | 1250                                                                                |
| Special feature                  | low retention                                                                     | low retention                                                                     | low retention                                                                       | low retention                                                                       |
| Colour                           | natural                                                                           | natural                                                                           | natural                                                                             | natural                                                                             |
| Graduation                       | +                                                                                 | +                                                                                 | +                                                                                   | +                                                                                   |
| Sterile                          | +                                                                                 | +                                                                                 | +                                                                                   | +                                                                                   |
| Quantity per packaging unit/case | 96/960                                                                            | 96/960                                                                            | 96/960                                                                              | 96/768                                                                              |
| Packaging unit                   | rack                                                                              | rack                                                                              | rack                                                                                | rack                                                                                |

|                                     |
|-------------------------------------|
| 1 Cell/<br>Tissue Culture           |
| 2 HTS-<br>Microplates               |
| 3 Immunology/<br>HLA                |
| 4 Microbiology/<br>Bacteriology     |
| 5 Tubes/Multi-<br>Purpose Beakers   |
| 6 Liquid<br>Handling                |
| 7 Molecular<br>Biology              |
| 8 Protein<br>Crystallisation        |
| 9 Separation                        |
| 10 Biochips/<br>Microfluidics       |
| 11 Cryo-<br>Technics                |
| 12 Lids/Sealers/<br>CapMats         |
| 13 Reaction Tubes/<br>Analyser Cups |
| 14 Accessories                      |