

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 guaranteed to be 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).

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 | 16) 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

Michał Hadrys
+48 695 222 099
michal.hadrys@panalytica.pl

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®

▶ [Table of Compatibility, Technical Appendix](#)

Crystal tip

			
Cat.-No.	765 290	765 280	765 271
Description	crystal tip	crystal tip	crystal tip
	ideally suited for Eppendorf® 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	-	-



Michał Hadryś
+48 695 222 099
michal.hadrys@panalytica.pl

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



771 290
771 287
771 289

771 291
771 280
771 281

Micro Pipette Tips (0.5 – 20 µl)

10 µl Micro Pipette Tips
ideally suited for Gilson®

▶ Table of Compatibility, Technical Appendix

- Micro tip P10
- Micro tip P10 graduated, available in the practical EasyLoad® refill system



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



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

Michał Hadryś
+48 695 222 099
michal.hadrys@panalytica.pl



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Pipette Tips

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®

100 µl Pipette Tip ideally suited for Eppendorf®
This pipette tip is recommended for Eppendorf pipettors. Like the Gilson® pipette tip, it has a bevelled edge, which increases pipetting accuracy.
The pipette tip can be easily distinguished from the previously described 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 Eppendorf® 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 STrack
Matching rack for bulkware tips	Cat.-No. 973 202	Cat.-No. 973 202	-	-

Cat.-No.	739 290	739 280	739 261	744 290
	ideally suited for Gilson® Pipetman			ideally suited for Oxford®
	P20, P100, P200, F5, F10, F25, F50, F200, U200			
Volume [µl]	10 – 200	10 – 200	10 – 200	300
Colour	yellow	yellow	yellow	natural
Graduation	-	-	-	-
Sterile	-	-	+	-
Quantity per packaging unit/case	500/15000	96/4800	96/4800	1000/10000
Packaging unit	bulk	yellow ST-rack	yellow ST-rack	bulk
Matching rack for bulkware tips	Cat.-No. 973 270	-	-	-

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6 Liquid Handling
7 Molecular Biology
8 Protein Crystallisation
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10 Biochips/ Microfluidics
11 Cryo-Technics
12 Lids/Sealers/ CapMats
13 Reaction Tubes/ Analyser Cups
14 Accessories



728 290
728 280

739 282
739 291
739 263
739 264

739 296
739 265

200 µl / 250 µl Universal Pipette Tips

200 µl Universal Pipette Tips
200 µl Universal Pipette Tips, S-Style
250 µl Universal Pipette Tips

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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Michał Hadryś
+48 695 222 099
michal.hadrys@panalytica.pl

Pipette Tips

1000 µl Pipette Tips (100 – 1000 µl) and Macro Pipette Tips (5 ml)

Up to 1000 µl Pipette Tips
1000 µl tips have a greater diameter and are longer than 200 µl tips. Many laboratories distinguish between yellow

(200 µl) and blue (1000 µl) pipette tips. However, the colour is not sufficient to distinguish them because both pipette tip types are also available clear.









1000 µl Pipette Tips

1000 µl Pipette Tips
1000 µl Pipette Tips ideally suited for Eppendorf®
1000 µl Pipette Tips ideally suited for Gilson®

1000 µl Tips ideally suited for Eppendorf®
Like the 200 µl tip, the 1000 µl tip recommended for Eppendorf pipettors is distinguished particularly by a shorter tip collar. It can be used for volumes between 100 and 1000 µl.

1000 µl Tip ideally suited for Gilson®
This tip is ideally suited for Gilson® pipettors with a volume of 200 – 1000 µl and is only available in blue.

				
Cat.-No.	686 295	686 290	686 280	686 271
	ideally suited for Eppendorf® Reference, Research, Research pro			
Volume [µl]	100 – 1000	100 – 1000	100 – 1000	100 – 1000
Colour	natural	blue	blue	blue
Graduation	-	-	-	-
Sterile	-	-	-	+
Quantity per packaging unit/case	250/5000	250/5000	60/2400	60/2400
Packaging unit	bulk	bulk	blue ST-rack	blue ST-rack
Matching rack for bulkware tips	Cat.-No. 974 280	Cat.-No. 974 280	-	-
				
Cat.-No.	740 290	740 280	740 274	
	ideally suited for Gilson® Pipetman P1000, F250, F300, F500, F1000, U1000			
Volume [µl]	200 – 1000	200 – 1000	200 – 1000	
Colour	blue	blue	blue	
Graduation	-	-	-	
Sterile	-	-	+	
Quantity per packaging unit/case	250/5000	60/2400	60/2400	
Packaging unit	bulk	blue ST-rack	blue ST-rack	
Matching rack for bulkware tips	Cat.-No. 974 290	-	-	

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1000 µl Pipette Tips 1000 µl Universal Pipette Tips

↳ Table of Compatibility, Technical Appendix

1000 µl Universal Tip 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®; Finnpiptette®; 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

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

PCR

DNase-free
RNase-free
human DNA-free
non-Pyrogenic

non-cytotoxic



Cat.-No.	770 290	770 291
Description	gel-load	gel-load
Suitable for	Anthos®; Biohit®; Brand®; Costar®; Eppendorf®; Finnpipette®; 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

Michał Hadryś
+48 695 222 099
michal.hadrys@panalytica.pl

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4 Microbiology/Bacteriology
5 Tubes/Multi-Purpose Beakers
6 Liquid Handling
7 Molecular Biology
8 Protein Crystallisation
9 Separation
10 Biochips/Microfluidics
11 Cryo-Technics
12 Lids/Sealers/CapMats
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14 Accessories

Conductive Pipette Tips



Conductive Pipette Tips

- Cat.-No. 686 288 is free from DNase, RNase, human DNA and is non-pyrogenic and non-cytotoxic

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.

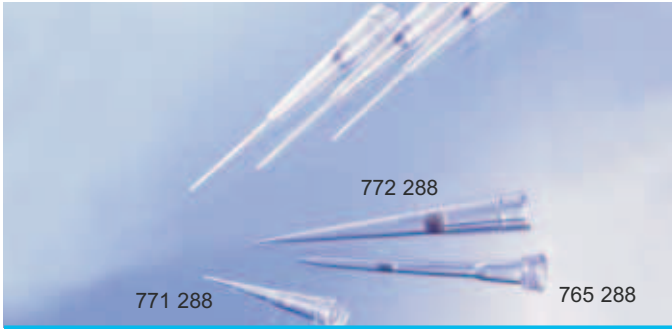
Michał Hadrys
+48 695 222 099
michal.hadrys@panalytica.pl

Cat.-No.	685 296	764 280
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.	686 296	686 288
Suitable for	-	-
Volume [µl]	200 – 1000	200 – 1000
Filter	-	+
Colour	black	black
Sterile	-	+
Quantity per packaging unit/case	250/5000	60/600
Packaging unit	bulk	F-rack
Matching rack for bulkware tips	Cat.-No. 974 280	-

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Filter Tips



Filter Tips

↳ Table of Compatibility, Technical Appendix

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 certified to be free of DNase / RNase and are sterilised by irradiation
- Are available in boxes of 96 pieces (Fig. 4) or 60 pieces in the case of 1000 µl tips
- Comply with the German Calibration Ordinance of August 1988
- Maintain the tolerance limits stipulated for pipette tips in DIN 12650

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 4 :
Filter tip rack (F-rack)

PCR

DNase-free
RNase-free
human DNA-free
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® Research Eppendorf® Reference Eppendorf® Research pro	Gilson® Pipetman P2, P10, U10	Brand®; Biohit®; Eppendorf®; 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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6 Liquid Handling
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10 Biochips/ Microfluidics
11 Cryo-Technics
12 Lids/Sealers/ CapMats
13 Reaction Tubes/ Analyser Cups
14 Accessories

10 – 200 µl



Cat.-No.	772 288	739 288
Description	filter tip	universal filter tip
Ideally suited for	universal	universal
Suitable for	Brand®; Biohit®; Eppendorf®; Gilson®; Socorex®	Brand®; Biohit®; 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	Eppendorf®	universal
Suitable for	Biohit®; Eppendorf®; Finnpipette®; Gilson®; 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

Michał Hadrys
+48 695 222 099
michal.hadrys@panalytica.pl

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EasyLoad®



EasyLoad®

- Autoclavable EasyLoad® racks
- Sterile and non-sterile option
- Racks are stackable
- Colour-coded boxes
- New 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 new 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

Michał Hadryś
+48 695 222 099
michal.hadrys@panalytica.pl

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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®; FinnpiPETTE®; 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, 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®; FinnpiPETTE®; 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

Michał Hadrys
+48 695 222 099
michal.hadrys@panalytica.pl

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