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Астрахань (8512)99-46-04  
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Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Россия +7(495)268-04-70

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Кострома (4942)77-07-48  
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Набережные Челны (8552)20-53-41  
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Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

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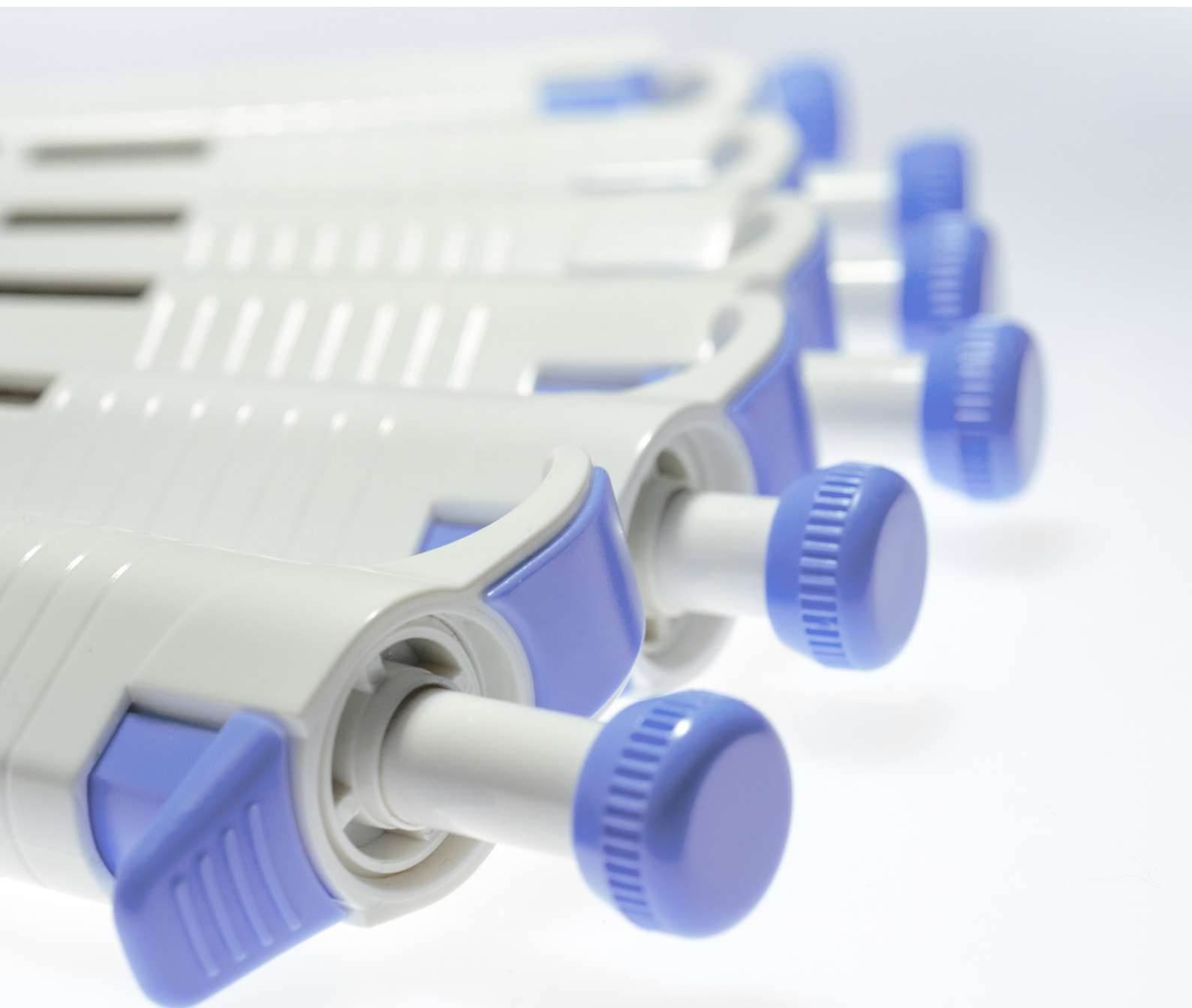
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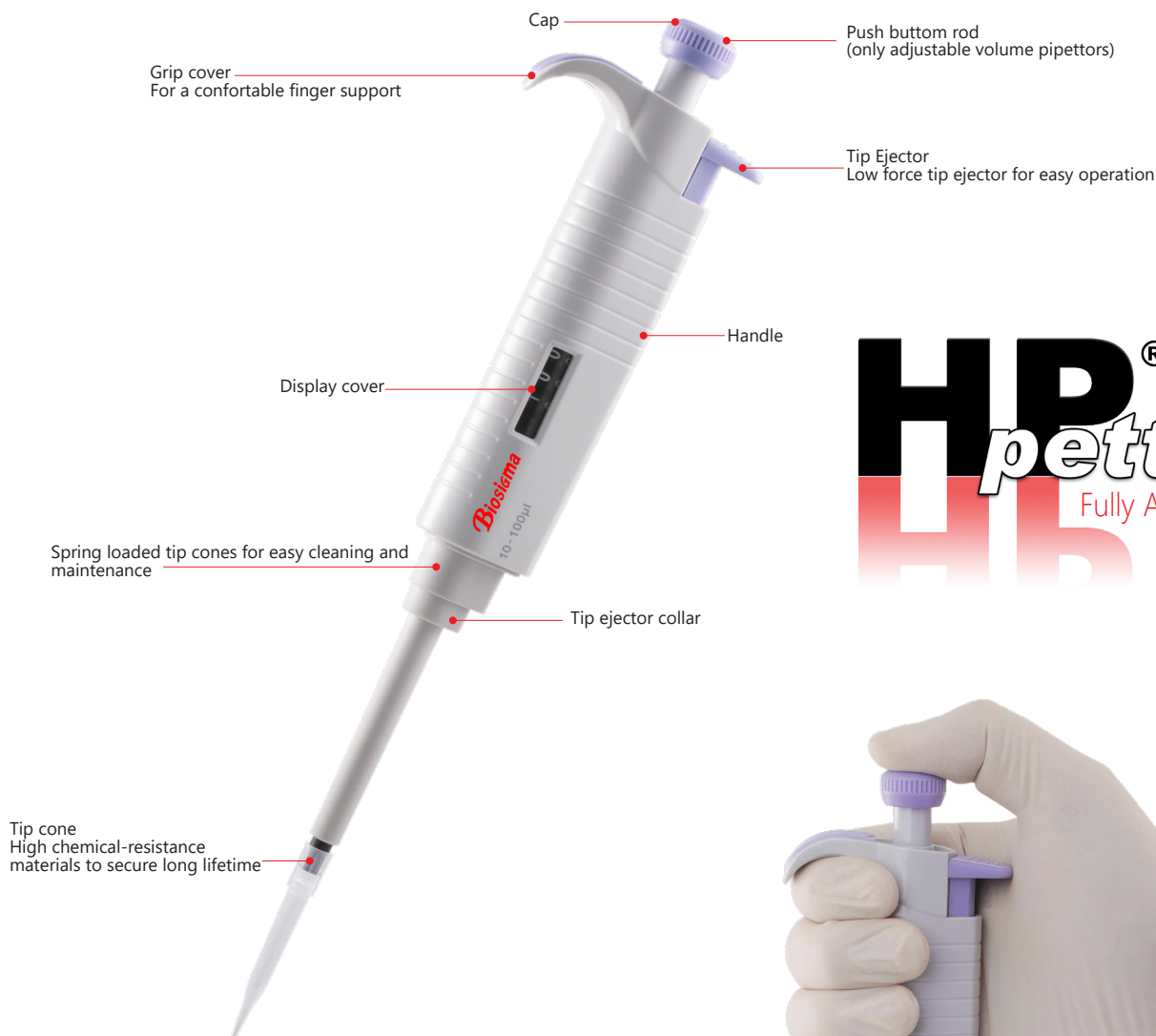
<https://biosigma.nt-rt.ru> || [bai@nt-rt.ru](mailto:bai@nt-rt.ru)



Fully **Autoclavable**

**HPpettePlus** HIGH PRECISION **MICROPIPETTE**

# MANUAL MICROPIPETTES WITH EJECTORS FULLY AUTOCLAVABLE



**HP**®  
**pette**<sup>Plus</sup>  
Fully Autoclavable



## FEATURES

- Fully autoclavable
- Slim design and light in weight, less risk of strain injuries.
- Compatible with most universal tip brands
- Excellent grip
- User friendly
- Large display window allows for easier volume identification
- Ejector button on the back for easy identification
- Pipettes cover volume range from 0.1µL to 5mL
- Easy calibration and maintenance
- Each pipette is supplied with an individual calibration certificate according to ISO8655 performed in factory

## Fix volume

| CAT. NO.   | Volume (µl) | Sale unit |
|------------|-------------|-----------|
| ABS119HPA  | 5           | 1         |
| ABS120HPA  | 10          | 1         |
| ABS121HPA  | 20          | 1         |
| ABS1210HPA | 25          | 1         |
| ABS122HPA  | 50          | 1         |
| ABS123HPA  | 100         | 1         |
| ABS124HPA  | 200         | 1         |
| ABS1241HPA | 500         | 1         |
| ABS125HPA  | 1000        | 1         |

## Adjustable volume

| CAT. NO.   | Volume (µl) | Sale unit |
|------------|-------------|-----------|
| ABS1261HPA | 0.1 - 2.5   | 1         |
| ABS126HPA  | 0.5 - 10    | 1         |
| ABS128HPA  | 2 - 20      | 1         |
| ABS129HPA  | 5 - 50      | 1         |
| ABS1290HPA | 10 - 100    | 1         |
| ABS131HPA  | 20 - 200    | 1         |
| ABS1310HPA | 50 - 200    | 1         |
| ABS1311HPA | 100 - 1000  | 1         |
| ABS132HPA  | 200 - 1000  | 1         |
| ABS127HPA  | 1000 - 5000 | 1         |



# MANUAL MICROPIPETTES WITH EJECTORS

## FEATURES

- Fully autoclavable
- 8 channel pipette are appropriate for 96-well plates
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assemblies allowing easy repair and maintenance
- Compound material-made tip cone secures high sealing performance
- Compatible with most universal tip brands

## Multichannel 8 channel

| CAT. NO.  | Volume (µl) | Compatible Tip | Sale unit |
|-----------|-------------|----------------|-----------|
| ABS133HPA | 5 - 50      | BSR066         | 1         |
| ABS135HPA | 50 - 300    | BSR074         | 1         |
| ABS136HPA | 0.5 - 10    | BSR064         | 1         |

## Fully autoclavable

The HP-Pette Plus are fully autoclavable enable easy cleaning to reduce the risk of contamination. Steam autoclaving can be performed at 121 °C, 1 bar for 20 minutes. After autoclaving the pipette must be cooled down and left to dry for 12 hours before use. It is recommended to check the performance of the pipette after each autoclaving. Greasing and sealing of the pipette piston after every 10th autoclaving will secure an enhanced function.



- Compatible only with HP-Pette Plus
- With 5 stations
- The carousel stand rotates smoothly and comfortably
- It holds up to 6 pipettes

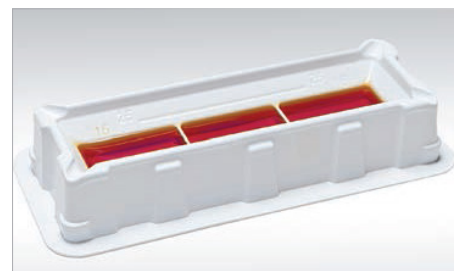
## Rack

| CAT. NO. | Description                                     | Sale unit |
|----------|-------------------------------------------------|-----------|
| 861006   | Pipettor stands in ABS                          | 1         |
| 861055   | Carousel pipette stand, suitable for 6 pipettes | 1         |



## STERILE PS REAGENT RESERVOIRS IN 25, 50, 100 ml

- In medical polystyrene
- Available Sterile and not
- Made in clean room
- Human DNA, RNase, DNase, non pyrogenic free
- Sterile SAL 10<sup>-6</sup>
- Angles with deposit system
- Graduated (volume accuracy +/- 5 %)
- V bottom to maximize the samples' rescue
- Non autoclavable



## Standard reservoir in white polystyrene

| Vol. (ml) | Non sterile bag / 100 | Sale unit | Sterile bag / 1 | Sale unit | Sterile bag / 5 | Sale unit |
|-----------|-----------------------|-----------|-----------------|-----------|-----------------|-----------|
| 25        | 097805                | 100       | 097801          | 100       | 097800          | 200       |
| 50        | 097819                | 100       | 097802          | 100       | 097803          | 200       |
| 100       | 097804                | 100       | 087806          | 100       | 087807          | 200       |

## 3 channel reservoirs in white polystyrene

| Volume (ml) | Sterile bag / 1 | Sale unit | Sterile bag / 5 | Sale unit |
|-------------|-----------------|-----------|-----------------|-----------|
| 25          | 087804          | 100       | 087805          | 200       |

# STANDARD TIPS

Several tip models utilizable with the most important pipette brands of the market.  
Available in bulk and rack both. Made of Polypropylene  
Autoclavable racks



Example of tips bag



Example of tips in rack  
0 - 200 µl



Example of tips in rack  
200 - 1000 µl



Example of tips in  
blister of 5 pcs

## Tip: EPPENDORF® type

Photo

|  | CAT. NO. | Volume (µl) | Color      | Sterile | Internal packaging | Sale unit | Compatibility                                                                                                                             |
|--|----------|-------------|------------|---------|--------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  | BSR062   | 0-10        | neutral    |         | Bag 1000 pcs       | 25000     | Eppendorf® Cristal                                                                                                                        |
|  | BSR063   |             |            |         | Rack 96 pcs        | 9600      |                                                                                                                                           |
|  | BSR0625  | 0.5-10      |            | X       | Blister 5 pcs      | 1000      | Eppendorf® - Gilson® - Socorex® - Htl® - Nichiryo®                                                                                        |
|  | BSR001   | 0-200       | yellow     |         | Bag 1000 pcs       | 25000     | Eppendorf® - Brand® - Socorex®                                                                                                            |
|  | BSR041   |             |            |         | Rack 96 pcs        | 9600      |                                                                                                                                           |
|  | BSR011   | 5-100       |            | X       | Blister 5 pcs      | 3000      | Eppendorf® - Gilson® - Socorex® - Nichiryo® - Pipetman® - Brand® - Clinipette® - Biohit® - Labsystem® - Excalibur® - HTL® - Finnpiquette® |
|  | BSR002   | 200-1000    | blue       |         | Bag 500 pcs        | 10000     | Eppendorf® - Socorex® - HTL® - Nichiryo®                                                                                                  |
|  | BSR042   |             | light blue |         | Rack 96 pcs        | 9600      |                                                                                                                                           |
|  | BSR012   | 100-1000    | blue       | X       | Blister 5 pcs      | 1000      | Eppendorf® - Gilson® - Socorex® - Nichiryo® - Pipetman® - Brand® - Clinipette® - Biohit® - Labsystem® - Excalibur® - HTL® - Finnpiquette® |
|  | BSR080   | 1000-5000   | neutral    |         | case 250 pcs       | 2000      | Eppendorf® - Socorex® - Biohit® - Oxford® - Acura®                                                                                        |

## Tip: GILSON® type

Photo

|  | CAT. NO. | Volume (µl) | Color   | Sterile | Internal packaging | Sale unit | Compatibility                                                                                               |
|--|----------|-------------|---------|---------|--------------------|-----------|-------------------------------------------------------------------------------------------------------------|
|  | BSR064   | 0.1-10      | neutral |         | Bag 1000 pcs       | 10000     | Gilson® - Eppendorf® - Socorex® - Nichiryo® - Jencons® - Biohit® Old Model - Elakay® - HTL® - Finnpiquette® |
|  | BSR076   |             |         |         | Rack 96 pcs        | 960       |                                                                                                             |
|  | BSR066   | 0-200       | yellow  |         | Bag 1000 pcs       | 25000     | Gilson®                                                                                                     |
|  | BSR0665  | 5-200       |         | X       | Blister 5 pcs      | 1000      |                                                                                                             |
|  | BSR067   | 100-1000    | blue    |         | Bag 1000 pcs       | 10000     | Gilson® - Eppendorf® - Socorex® - HTL® - Nichiryo®                                                          |
|  | BSR075   |             |         |         | Rack 96 pcs        | 960       |                                                                                                             |

## Tip: MLA® type

Photo

|  | CAT. NO. | Volume (µl) | Color   | Sterile | Internal packaging | Sale unit | Compatibility                     |
|--|----------|-------------|---------|---------|--------------------|-----------|-----------------------------------|
|  | BSR008   | 10-200      | neutral |         | Bag 1000 pcs       | 12000     | Mla® - Oxford®                    |
|  | BSR018   |             |         | X       | Blister 5 pcs      | 2000      |                                   |
|  | BSR048/N |             |         |         | Rack 192 pcs       | 960       |                                   |
|  | BSR009   | 100-1000    | neutral |         | Bag 1000 pcs       | 10000     | Mla® - Finnpiquette® Colour model |
|  | BSR019   |             |         | X       | Blister 5 pcs      | 500       |                                   |
|  | BSR049/N |             |         |         | Rack 192 pcs       | 960       |                                   |

## Tip: Oxford® type

Photo

|  | CAT. NO. | Volume (µl) | Color   | Sterile | Internal packaging | Sale unit | Compatibility               |
|--|----------|-------------|---------|---------|--------------------|-----------|-----------------------------|
|  | BSR004   | 5-200       | neutral |         | Bag 1000 pcs       | 10000     | Oxford® slim line - Diamed® |
|  | BSR014   |             |         | X       | Blister 5 pcs      | 500       |                             |
|  | BSR003   | 10-200      | neutral |         | Bag 1000 pcs       | 22000     | Oxford® - Finnpiquette®     |
|  | BSR013   |             |         | X       | Blister 5 pcs      | 1500      |                             |
|  | BSR007   | 101-1000    | blue    |         | Bag 1000 pcs       | 10000     | Oxford®                     |
|  | BSR017   |             |         | X       | Blister 5 pcs      | 500       |                             |



# Standard Tips compatibility with HPpette

Match the right tip to each HPpette

| Micropipettes |                                  | Micropipettes Single channel |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      | Multichannel<br>8 channel |                       |                     |                       |
|---------------|----------------------------------|------------------------------|-----------------------|---------------------|---------------------|------------------------|-----------------------|------------------------|--------------------------|-------------------------|--------------------------|-------------------|--------------------|--------------------|---------------------|--------------------|---------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|-----------------------|
|               |                                  | Adjustable volume            |                       |                     |                     |                        |                       |                        |                          |                         |                          | Fix volume        |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
|               |                                  | ABS1261HPA<br>0.1-2.5µl      | ABS126HPA<br>0.5-10µl | ABS128HPA<br>2-20µl | ABS129HPA<br>5-50µl | ABS1290HPA<br>10-100µl | ABS131HPA<br>20-200µl | ABS1310HPA<br>50-200µl | ABS1311HPA<br>100-1000µl | ABS132HPA<br>200-1000µl | ABS127HPA<br>1000-5000µl | ABS119HPA<br>5 µl | ABS120HPA<br>10 µl | ABS121HPA<br>20 µl | ABS1210HPA<br>25 µl | ABS122HPA<br>50 µl | ABS123HPA<br>100 µl | ABS124HPA<br>200 µl | ABS1241HPA<br>500 µl | ABS125HPA<br>1000 µl      | ABS136HPA<br>0.5-10µl | ABS133HPA<br>5-50µl | ABS135HPA<br>50-300µl |
| Tips          | X = compatible                   |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR062        | 0-10 µl neutral                  | X                            | X                     |                     |                     |                        |                       |                        |                          |                         |                          |                   | X                  | X                  |                     |                    |                     |                     |                      |                           | X                     |                     |                       |
| BSR063        | 0-10 µl neutral                  | X                            | X                     |                     |                     |                        |                       |                        |                          |                         |                          |                   | X                  | X                  |                     |                    |                     |                     |                      |                           | X                     |                     |                       |
| BSR0625       | 0.5-20 µL neutral                | X                            | X                     |                     |                     |                        |                       |                        |                          |                         |                          |                   | X                  | X                  |                     |                    |                     |                     |                      |                           | X                     |                     |                       |
| BSR001        | 0-200 µl yellow                  |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   |                    | X                  | X                   | X                  | X                   | X                   |                      |                           |                       |                     |                       |
| BSR041        | 0-200 µl yellow                  |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   | X                  | X                  | X                   | X                  | X                   |                     |                      |                           |                       |                     |                       |
| BSR011        | 5-100 µl yellow                  |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   | X                  | X                  | X                   | X                  | X                   |                     |                      |                           |                       |                     |                       |
| BSR064        | 0.1-10 µl neutral                | X                            | X                     |                     |                     |                        |                       |                        |                          |                         |                          |                   | X                  | X                  |                     |                    |                     |                     |                      |                           | X                     |                     |                       |
| BSR076        | 0.1-10 µl neutral in rack 96 pcs | X                            | X                     |                     |                     |                        |                       |                        |                          |                         |                          |                   | X                  | X                  |                     |                    |                     |                     |                      |                           | X                     |                     |                       |
| BSR066        | 0-200 µL yellow                  |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   | X                  | X                  | X                   | X                  | X                   |                     |                      |                           |                       | X                   |                       |
| BSR0665       | 5-200 µL yellow                  |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   | X                  | X                  | X                   | X                  | X                   |                     |                      |                           |                       | X                   |                       |
| BSR002        | 200-1000 µL blue                 |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     | X                   | X                    |                           |                       |                     |                       |
| BSR042        | 200-1000 µL light blue           |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     | X                   | X                    |                           |                       |                     |                       |
| BSR012        | 100-1000 µL blue                 |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     | X                   | X                    |                           |                       |                     |                       |
| BSR074        | 2-300 µl neutral in rack 96 pcs  |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     | X                     |
| BSR067        | 100-1000 µl blue                 |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     | X                   | X                    |                           |                       |                     |                       |
| BSR075        | 100-1000 µl blue                 |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     | X                   | X                    |                           |                       |                     |                       |
| BSR080        | 1000-5000 µl neutral             |                              |                       |                     |                     |                        |                       |                        |                          | X                       |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR008        | 10-200 µL neutral                |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   | X                  | X                  | X                   | X                  | X                   |                     |                      |                           |                       |                     |                       |
| BSR018        | 10-200 µL neutral                |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   | X                  | X                  | X                   | X                  | X                   |                     |                      |                           |                       |                     |                       |
| BSR048/N      | 10-200 µL neutral                |                              |                       | X                   | X                   | X                      | X                     | X                      |                          |                         |                          |                   | X                  | X                  | X                   | X                  | X                   |                     |                      |                           |                       |                     |                       |
| BSR009        | 100-1000 µL neutral              |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR019        | 100-1000 µL neutral              |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR049/N      | 250-1000 µL neutral              |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR004        | 5-200 µL neutral                 |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR014        | 5-200 µL neutral                 |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR003        | 10-200 µL neutral                |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR013        | 10-200 µL neutral                |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR007        | 101-1000 µL neutral              |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| BSR017        | 101-1000 µL neutral              |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |

# New Biosigma CLEARLine® STERILE FILTER TIPS, RACKED

UNIVERSAL FILTER TIPS IN RACK, in PP Sterile, Low Retention.  
DNase & RNase free, Pyrogen free - CLEARLine®

## FEATURES

- New CLEARLine® packaging
- QR code in the label that simplifies tracking of lot number and expiry date
- Filtered tip, in natural polypropylene
- Sterile
- Autoclavable at +121°C
- Standard and low retention
- DNase & RNase free, Pyrogen free
- Racked, hinged lid
- Compatible with most micropipettes on the market
- Environmentally Green friendly packaging



**CLEARLine®**  
"Be cool, be safe, be CLEARLine"



## Tip: CLEARLine® Standard

| Photo                                 | CAT. NO.  | Volume (µl)     | Features                               | Sterile | Internal packaging | Sale unit | Compatibility                                                                |
|---------------------------------------|-----------|-----------------|----------------------------------------|---------|--------------------|-----------|------------------------------------------------------------------------------|
| 10µl Universal filter tips            | 028200CLH | 10µl            | Universal filter tips (31,65mm)        | X       | 10 Rack of 96 pcs  | 960       | Axygen,Thermo,Gilson, Eppendorf and so on only except special pipette models |
| 10µl Universal filter tips longer     | 015020CLH | 10µl            | Universal filter tips longer (45,80mm) | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 20µl Universal filter tips            | 014210CLH | 20µl            | Universal filter tips (50,55mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 100µl Universal filter tips           | 036060CLH | 100µl           | Universal filter tips (50,55mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 200µl Universal filter tips           | 014220CLH | 200µl           | Universal filter tips (50,55mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 1000µl Universal filter tips          | 014200CLH | 1000µl          | Universal filter tips (78,05mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 1000µl (1250µl) Universal filter tips | 134000CLH | 1000µl (1250µl) | Universal filter tips (102,00±0,25mm)  | X       | 10 Rack of 96 pcs  | 960       |                                                                              |

## Tip: CLEARLine® Low Retention

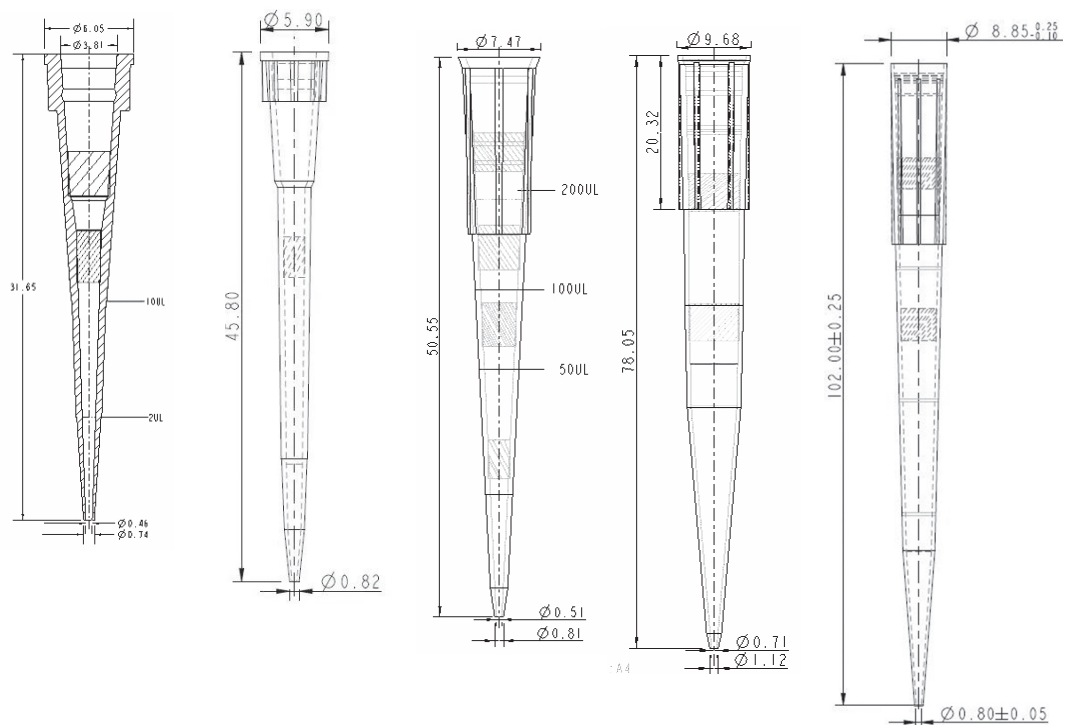
| Photo                                 | CAT. NO. | Volume (µl)     | Features                               | Sterile | Internal packaging | Sale unit | Compatibility                                                                |
|---------------------------------------|----------|-----------------|----------------------------------------|---------|--------------------|-----------|------------------------------------------------------------------------------|
| 10µl Universal filter tips            | 713130H  | 10µl            | Universal filter tips (31,65mm)        | X       | 10 Rack of 96 pcs  | 960       | Axygen,Thermo,Gilson, Eppendorf and so on only except special pipette models |
| 10µl Universal filter tips longer     | 713114H  | 10µl            | Universal filter tips longer (45,80mm) | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 20µl Universal filter tips            | 713115H  | 20µl            | Universal filter tips (50,55mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 100µl Universal filter tips           | 713116H  | 100µl           | Universal filter tips (50,55mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 200µl Universal filter tips           | 713117H  | 200µl           | Universal filter tips (50,55mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 1000µl Universal filter tips          | 713118H  | 1000µl          | Universal filter tips (78,05mm)        | X       | 10 Rack of 96 pcs  | 960       |                                                                              |
| 1000µl (1250µl) Universal filter tips | 713119H  | 1000µl (1250µl) | Universal filter tips (102,00±0,25mm)  | X       | 10 Rack of 96 pcs  | 960       |                                                                              |

# CLEARLine® Tips compatibility with HPpette

Match the right tip to each **HPpette**

|               |                               | Micropipettes Single channel |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      | Multichannel<br>8 channel |                       |                     |                       |
|---------------|-------------------------------|------------------------------|-----------------------|---------------------|---------------------|------------------------|-----------------------|------------------------|--------------------------|-------------------------|--------------------------|-------------------|--------------------|--------------------|---------------------|--------------------|---------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|-----------------------|
|               |                               | Adjustable volume            |                       |                     |                     |                        |                       |                        |                          |                         | Fix volume               |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| Micropipettes |                               | ABS1261HPA<br>0.1-2.5µl      | ABS126HPA<br>0.5-10µl | ABS128HPA<br>2-20µl | ABS129HPA<br>5-50µl | ABS1290HPA<br>10-100µl | ABS131HPA<br>20-200µl | ABS1310HPA<br>50-200µl | ABS1311HPA<br>100-1000µl | ABS132HPA<br>200-1000µl | ABS127HPA<br>1000-5000µl | ABS119HPA<br>5 µl | ABS120HPA<br>10 µl | ABS121HPA<br>20 µl | ABS1210HPA<br>25 µl | ABS122HPA<br>50 µl | ABS123HPA<br>100 µl | ABS124HPA<br>200 µl | ABS1241HPA<br>500 µl | ABS125HPA<br>1000 µl      | ABS136HPA<br>0.5-10µl | ABS133HPA<br>5-50µl | ABS135HPA<br>50-300µl |
| Tips          | X = compatible                |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| 028200CLH     | 10µl                          | X                            | X                     |                     |                     |                        |                       |                        |                          |                         |                          | X                 | X                  |                    |                     |                    |                     |                     |                      |                           | X                     |                     |                       |
| 015020CLH     | 10µl longer                   |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| 014210CLH     | 20µl                          |                              |                       | X                   |                     |                        |                       |                        |                          |                         |                          |                   |                    | X                  |                     |                    |                     |                     |                      |                           |                       | X                   |                       |
| 036060CLH     | 100µl                         |                              |                       |                     | X                   | X                      |                       |                        |                          |                         |                          |                   |                    |                    | X                   | X                  | X                   |                     |                      |                           |                       | X                   |                       |
| 014220CLH     | 200µl                         |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| 014200CLH     | 1000µl                        |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     |                     | X                    | X                         |                       |                     |                       |
| 134000CLH     | 1000µl (1250µl)               |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| 713130H       | 10µl low retention            | X                            | X                     |                     |                     |                        |                       |                        |                          |                         |                          | X                 | X                  |                    |                     |                    |                     |                     |                      |                           | X                     |                     |                       |
| 713114H       | 10µl longer low retention     |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| 713115H       | 20µl low retention            |                              |                       | X                   |                     |                        |                       |                        |                          |                         |                          |                   |                    | X                  |                     |                    |                     |                     |                      |                           |                       | X                   |                       |
| 713116H       | 100µl low retention           |                              |                       |                     | X                   | X                      |                       |                        |                          |                         |                          |                   |                    |                    | X                   | X                  | X                   |                     |                      |                           |                       | X                   |                       |
| 713117H       | 200µl low retention           |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |
| 713118H       | 1000µl low retention          |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     |                     | X                    | X                         |                       |                     |                       |
| 713119H       | 1000µl (1250µl) low retention |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                       |                     |                       |

Technical drawing



|               |           |           |                                     |           |           |
|---------------|-----------|-----------|-------------------------------------|-----------|-----------|
| Standard      | 028200CLH | 015020CLH | 014210CLH<br>036060CLH<br>014220CLH | 014200CLH | 134000CLH |
| Low Retention | 713130H   | 713114H   | 713115H<br>713116H<br>713117H       | 713118H   | 713119H   |

# CLEARLine® STERILE FILTER TIPS, RACKED, IN LIFT-OFF LID BOXES

Your solution for liquid samples.

- Filtered tip, in natural polypropylene, racked, available in lift-off lid boxes
- Certified DNase, RNase-free, human DNA, PCR inhibitors and Pyrogen free
- Sterile
- The ISO 8655 norm, as established by an independent laboratory, guarantees that the ClearLine® tips do not alter the pipette's



## Certification ISO-8655

**ClearLine®**



Available:

- In standard virgin polypropylene
- In low Binding: the tip, hydrophobic PP made, reduces the surface tension with two benefits: a maximal sample refund and a minimal retention of DNA and proteins (weakest retention respect to the standard one)

| Model                  | Volume (µl)                     | Features                    | Compatibility                                                                                      | Standard |           | Low Binding |           |
|------------------------|---------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------|----------|-----------|-------------|-----------|
|                        |                                 |                             |                                                                                                    | CAT. NO. | Sale unit | CAT. NO.    | Sale unit |
| Microguard 10G         | 0.1-10 µl                       | Small volume Tips (28.8 mm) | Gilson P2-P10, Finnpiquette 2-10 µl Biohit 2.5-10 µl                                               | 028200CL | 10x96     | 035200CL    | 10x96     |
| MicroReach Guard       | 0.1-10 µl                       | Universal Long (45 mm)      | Gilson P2-P10 Eppendorf 10 µl Finnpiquette 2-10 µl Biohit 2.5-10 µl                                | 038000CL | 10x96     | 038000TCL   | 10x96     |
| Microguard 10XL        | 0.1-10 µl                       | Universal Long (45 mm)      | Gilson P2-P10 Eppendorf 2.5 µl – 10 µl Finnpiquette 2-10 µl Biohit 2.5-10 µl                       | 130340CL | 10x96     | -           | -         |
| Multiguard 10E         | 0.5-10 µl                       | Crystal Long tips (45.5 mm) | Eppendorf 10 µl Socorex 10 µl                                                                      | 015020CL | 10x96     | 035210CL    | 10x96     |
| Multiguard 20 µl       | 1-20 µl                         | Universal (50.7 mm)         | Gilson P20 Eppendorf 20 µl Finnpiquette 10-20 µl Socorex 20 µl                                     | 014210CL | 10x96     | 035220CL    | 10x96     |
| Multiguard 100 µl      | 1-100 µl                        | Universal (50.7 mm)         | Gilson P100 Biohit 50-100 µl Eppendorf 100 µl Finnpiquette 50-100 µl Socorex 100 µl                | 036060CL | 10x96     | 036060TCL   | 10x96     |
| Multiguard 200 µl      | 1-200 µl                        | Universal (50.7 mm)         | Gilson P200 Eppendorf 200 µl Finnpiquette 200 µl Socorex 200 µl                                    | 014220CL | 10x96     | 035230CL    | 10x96     |
| MultiGuard3 and 200 µl | 1-2 µl<br>1-100 µl<br>1- 200 µl | Long Tips (78.0 mm)         | Gilson P20 – P100 – P200 Biohit 50-100 µl Eppendorf 20-100-200 µl Finnpiquette 10-20-50-100-200 µl | 017370CL | 10x96     | 035240CL    | 10x96     |
| Multiguard 300 XT      | 1-300 µl                        | Long Tips (78.0 mm)         | Gilson P200 Biohit 250 µl Eppendorf 200 µl Finnpiquette 200 µl                                     | 130510CL | 10x96     | 130510TCL   | 10x96     |
| Multiguard 1000 µl     | 100-1000 µl                     | Universal (71.8 mm)         | Gilson P1000 Eppendorf 1000 µl Finnpiquette 1000 µl Biohit 1000 µl Socorex 1000 µl                 | 014200CL | 10x100    | 035260CL    | 10x100    |
| Multiguard 1250 µl     | 50-1250 µl                      | Long Tips (102 mm)          | for pipettes 1000 µl                                                                               | 134000CL | 8x96      | -           | -         |

### Non-filter tips, racked, lift-off lid

### Standard tips

### Low-binding tips

| Volume (µl) | Description                                      | Compatibility | Qty      | Non-sterile | Sterile   | Non-sterile | Sterile   |
|-------------|--------------------------------------------------|---------------|----------|-------------|-----------|-------------|-----------|
| 0.1 - 10    | 45 mm long, fine tip                             | Universal     | 10 x 96  | 030560ACL   | 030570ACL | -           | -         |
| 0.1 - 10    | 45 mm long tip                                   | Universal     | 10 x 96  | 037640CL    | 037660CL  | 037640TCL   | 037660TCL |
| 1 - 200     | Universal tip, natural colour - length 50.7 mm   | Universal     | 10 x 96  | 032230CL    | 032250CL  | -           | 035100ACL |
| 1 - 200     | Universal graduated tip, yellow - length 50.7 mm | Universal     | 10 x 96  | 032240CL    | 032260CL  | -           | -         |
| 100 - 1000  | Universal tip, blue - length 72.8 mm             | Universal     | 10 x 100 | 027110CL    | 027120CL  | -           | -         |
| 50 - 1250   | 102 mm long tip                                  | Universal     | 8 x 96   | 134750CL*   | 134760CL* | -           | -         |

\* Supplied in a rack with hinged lid



## CLEARLine® Tips compatibility with HPpette

Match the right tip to each HPpette

|                                      |                                            | Micropipettes Single channel                                  |                       |                     |                     |                        |                       |                        |                          |                         |                   |                    |                    |                     |                    |                     |                     | Multichannel 8 channel |                      |                       |                     |                       |
|--------------------------------------|--------------------------------------------|---------------------------------------------------------------|-----------------------|---------------------|---------------------|------------------------|-----------------------|------------------------|--------------------------|-------------------------|-------------------|--------------------|--------------------|---------------------|--------------------|---------------------|---------------------|------------------------|----------------------|-----------------------|---------------------|-----------------------|
|                                      |                                            | Micropipettes                                                 |                       |                     |                     |                        |                       |                        |                          |                         |                   |                    |                    |                     |                    |                     |                     |                        |                      |                       |                     |                       |
|                                      |                                            | Adjustable volume                                             |                       |                     |                     |                        |                       |                        |                          |                         |                   |                    |                    | Fix volume          |                    |                     |                     |                        |                      |                       |                     |                       |
| Tips                                 | X = compatible                             | ABS1261HPA<br>0.1-2.5µl                                       | ABS126HPA<br>0.5-10µl | ABS128HPA<br>2-20µl | ABS129HPA<br>5-50µl | ABS1290HPA<br>10-100µl | ABS131HPA<br>20-200µl | ABS1310HPA<br>50-200µl | ABS1311HPA<br>100-1000µl | ABS132HPA<br>200-1000µl | ABS119HPA<br>5 µl | ABS120HPA<br>10 µl | ABS121HPA<br>20 µl | ABS1210HPA<br>25 µl | ABS122HPA<br>50 µl | ABS123HPA<br>100 µl | ABS124HPA<br>200 µl | ABS1241HPA<br>500 µl   | ABS125HPA<br>1000 µl | ABS136HPA<br>0.5-10µl | ABS133HPA<br>5-50µl | ABS135HPA<br>50-300µl |
| CLEARLINE STERILE FILTER TIPS RACKED | 028200CL<br>035200CL                       | 0.1 - 10 µL<br>Gilson-type<br>short tip<br>(lenght 28.8mm)    | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                        |                      | X                     |                     |                       |
|                                      | 038000CL<br>038000TCL                      | 0.1 - 10 µL<br>long tip<br>(lenght 45mm)                      | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                        |                      | X                     |                     |                       |
|                                      | 130340CL                                   | 0.1 - 10 µL<br>long fine tip<br>(lenght 45mm)                 | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                        |                      | X                     |                     |                       |
|                                      | 015020CL<br>035210CL                       | 0.5 - 10 µL<br>Eppendorf-type<br>short tip<br>(lenght 45.5mm) | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                        |                      |                       |                     |                       |
|                                      | 014210L<br>035220CL                        | 0.2 - 20 µL<br>universal tip                                  |                       |                     | X                   |                        |                       |                        |                          |                         |                   |                    | X                  |                     |                    |                     |                     |                        |                      |                       |                     |                       |
|                                      | 036060CL<br>036060TCL                      | 1 - 100 µL<br>universal tip                                   |                       |                     | X                   | X                      | X                     |                        |                          |                         |                   |                    | X                  | X                   | X                  | X                   |                     |                        |                      |                       |                     |                       |
|                                      | 014220CL<br>035230CL                       | 1 - 200 µL<br>universal tip                                   |                       |                     |                     |                        | X                     | X                      | X                        |                         |                   |                    |                    |                     | X                  | X                   | X                   |                        |                      |                       |                     |                       |
|                                      | 017370CL<br>035240CL                       | Long tip for 20.<br>100 or 200 µL<br>pipettes                 |                       |                     | X                   | X                      | X                     | X                      | X                        |                         |                   |                    |                    | X                   | X                  | X                   | X                   | X                      |                      |                       |                     | X                     |
|                                      | 130510CL<br>130510TCL                      | 1 - 300 µL<br>long tip<br>(lenght 78mm)                       |                       |                     | X                   | X                      | X                     | X                      | X                        |                         |                   |                    |                    | X                   | X                  | X                   | X                   | X                      |                      |                       | X                   |                       |
|                                      | 014200CL<br>035260CL                       | 100 - 1000 µL<br>long tip<br>(lenght 102mm)                   |                       |                     |                     |                        |                       |                        |                          | X                       | X                 |                    |                    |                     |                    |                     |                     |                        | X                    | X                     |                     |                       |
| 134000CL                             | 50 - 1250 µL<br>long tip<br>(lenght 102mm) |                                                               |                       |                     |                     |                        |                       |                        |                          | X                       | X                 |                    |                    |                     |                    |                     |                     | X                      | X                    |                       |                     |                       |
| CLEARLINE NON-FILTER TIPS, RACKED    | 030560ACL<br>030570ACL                     | 0.1 - 10 µL long<br>fine tip<br>(lenght 45mm)                 | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                        |                      | X                     |                     |                       |
|                                      | 037640CL<br>037660CL<br>037640TCL          | 0.1 - 10 µL<br>long tip<br>(lenght 45mm)                      | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                        |                      | X                     |                     |                       |
|                                      | 032230CL<br>032250CL<br>035100ACL          | 1 - 200 µL<br>universal<br>natural tip                        |                       |                     | X                   | X                      | X                     | X                      | X                        |                         |                   |                    | X                  | X                   | X                  | X                   | X                   |                        |                      |                       | X                   |                       |
|                                      | 032240CL<br>032260CL                       | 1 - 200 µL<br>universal<br>yellow tip                         |                       |                     | X                   | X                      | X                     | X                      | X                        |                         |                   |                    | X                  | X                   | X                  | X                   | X                   |                        |                      |                       | X                   |                       |
|                                      | 027110CL<br>027120CL                       | 10 - 1000 µL<br>universal<br>blue tip                         |                       |                     |                     |                        |                       |                        |                          | X                       | X                 |                    |                    |                     |                    |                     |                     |                        | X                    | X                     |                     |                       |
|                                      | 134750CL<br>134760CL                       | 50 - 1250 µL<br>long tip                                      |                       |                     |                     |                        |                       |                        |                          | X                       | X                 |                    |                    |                     |                    |                     |                     |                        | X                    | X                     |                     |                       |

## Filterless and filtered tips on hinged rack, ClearLine® Prime

- Sterile tips with or without filter
- Low retention filter tips: maximum sample recovery ensuring precise volume distribution
- Universal compatibility

**ClearLine®**

DNase  
RNase

Human  
DNA

PCR  
Inhibitors

Endo-  
toxins



ClearLine® Tips with hinged-lid rack

NB: Picture are not in scale

*In an effort towards environmental sustainability, the rack has been lightened by reducing the amount of plastic used*

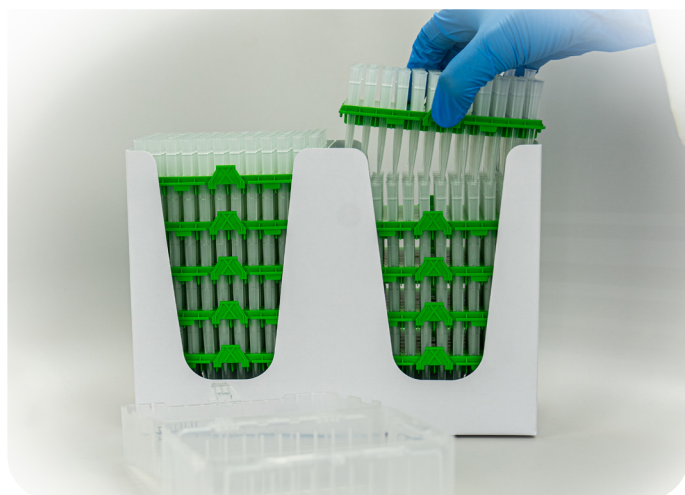


| Low Binding | Sterile filtered rack-mount tips Clearline® Prime |            |                                              |            |           |  |
|-------------|---------------------------------------------------|------------|----------------------------------------------|------------|-----------|--|
| CAT. NO.    | Volume (µl)                                       | Tray Color | Description                                  | Int. pack. | Sale unit |  |
| 257517      | 10                                                | red        | 10 µl graduated tip<br>Length: 31.24 mm      | 10 x 96    | 960       |  |
| 257509      | 10                                                | red        | 10 µl graduated long tip<br>Length: 45.87 mm | 10 x 96    | 960       |  |
| 257510      | 20                                                | yellow     | 20 µl graduated tip<br>Length: 50.75 mm      | 10 x 96    | 960       |  |
| 257511      | 100                                               | yellow     | 100 µl graduated tip<br>Length: 59.54 mm     | 10 x 96    | 960       |  |
| 257512      | 200                                               | yellow     | 200 µl graduated tip<br>Length: 59.54 mm     | 10 x 96    | 960       |  |
| 257518      | 300                                               | green      | 300 µl graduated tip<br>Length: 59.54 mm     | 10 x 96    | 960       |  |
| 257513      | 1000                                              | blue       | 1000 µl graduated tip<br>Length: 81.78 mm    | 8 x 96     | 768       |  |
| 257514      | 1250                                              | blue       | 1250 µl graduated tip<br>Length: 98.40 mm    | 8 x 96     | 768       |  |

| Standard | Low Binding | Sterile unfiltered rack-mount tips Clearline® Prime |            |                                              |            |           |
|----------|-------------|-----------------------------------------------------|------------|----------------------------------------------|------------|-----------|
| CAT. NO. | CAT. NO.    | Volume (µl)                                         | Tray Color | Description                                  | Int. pack. | Sale unit |
| 257520   | 257526      | 10                                                  | red        | 10 µl graduated tip<br>Length: 31.24 mm      | 10 x 96    | 960       |
| 257519   | 257525      | 10                                                  | red        | 10 µl graduated long tip<br>Length: 45.87 mm | 10 x 96    | 960       |
| -        | -           |                                                     |            |                                              |            |           |
| -        | -           |                                                     |            |                                              |            |           |
| 257521   | 257527      | 200                                                 | yellow     | 200 µl graduated tip<br>Length: 50.75 mm     | 10 x 96    | 960       |
| 257522   | 257528      | 300                                                 | green      | 300 µl graduated tip<br>Length: 59.54 mm     | 10 x 96    | 960       |
| 257523   | 257529      | 1000                                                | blue       | 1000 µl graduated tip<br>Length: 83.09 mm    | 8 x 96     | 768       |
| 257524   | 257530      | 1250                                                | blue       | 1000 µl long graduated tip                   | 8 x 96     | 768       |

# Refill system for ClearLine® hinged racks

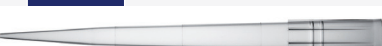
## Recharge system for ClearLine® hinged racks



- Simple and fast refill system
- Standard or low-retention, non-sterile, filterless tips with universal compatibility
- Environmentally friendly: cardboard packaging (reducing plastic waste associated with refill tower packaging)
- Very compact: the system requires 57% less storage space compared to other systems
- ClearLine® Prime refill trays are compatible with ClearLine® Prime hinged racks with filter tips
- Available in resealable Cleanpack bags

**ClearLine®**



| Recharge Standard                                                                     |            |               |            | Recharge Low binding |            |               |            |             |            |                                              |
|---------------------------------------------------------------------------------------|------------|---------------|------------|----------------------|------------|---------------|------------|-------------|------------|----------------------------------------------|
| Bag in Carton                                                                         |            | Bag Cleanpack |            | Bag in Carton        |            | Bag Cleanpack |            |             |            |                                              |
| CAT. NO.                                                                              | Int. pack. | CAT. NO.      | Int. pack. | CAT. NO.             | Int. pack. | CAT. NO.      | Int. pack. | Volume (µl) | Tray Color | Description                                  |
| 257764                                                                                | 10 x 96    | 257531        | 5 x 960    | 257770               | 10 x 96    | 257537        | 5 x 960    | 10          | red        | 10 µl graduated tip<br>Length: 31.24 mm      |
|   |            |               |            |                      |            |               |            |             |            |                                              |
| 257765                                                                                | 10 x 96    | 257532        | 5 x 960    | 257771               | 10 x 96    | 257538        | 5 x 960    | 10          | red        | 10 µl graduated long tip<br>Length: 45.84 mm |
|  |            |               |            |                      |            |               |            |             |            |                                              |
| 257766                                                                                | 10 x 96    | 257533        | 5 x 960    | 257772               | 10 x 96    | 257539        | 5 x 960    | 200         | yellow     | 200 µl graduated tip<br>Length: 50.75 mm     |
|  |            |               |            |                      |            |               |            |             |            |                                              |
| 257767                                                                                | 10 x 96    | 257534        | 5 x 960    | 257773               | 10 x 96    | 257540        | 5 x 960    | 300         | green      | 300 µl graduated tip<br>Length: 59.54 mm     |
|  |            |               |            |                      |            |               |            |             |            |                                              |
| 257768                                                                                | 8 x 96     | 257535        | 4 x 960    | 257774               | 8 x 96     | 257541        | 4 x 960    | 1000        | blue       | 1000 µl graduated tip<br>Length: 81.78 mm    |
|  |            |               |            |                      |            |               |            |             |            |                                              |
| 257769                                                                                | 8 x 96     | 257536        | 4 x 960    | 257775               | 8 x 96     | 257542        | 4 x 960    | 1250        | blue       | 1250 µl graduated tip<br>Length: 98.40 mm    |
|  |            |               |            |                      |            |               |            |             |            |                                              |

NB: Picture are not in scale

## Empty boxes for reload system



| CAT. NO. | Description                                         | Sale unit |
|----------|-----------------------------------------------------|-----------|
| 257515   | Empty boxes for Clearline® 10-300 µL racked tips    | 10        |
| 257516   | Empty boxes for Clearline® 1000-1250 µL racked tips | 8         |



# Specifications

## Single-channel Adjustable Volume Pipettes

| Volume Range | Increment | Test Volume | Maximum permissible systematic error<br>(Inaccuracy) |        | Maximum permissible random error<br>(Imprecision) |        |
|--------------|-----------|-------------|------------------------------------------------------|--------|---------------------------------------------------|--------|
|              |           |             | %                                                    | µL     | %                                                 | µL     |
| 0.1~2.5µL    | 0.05µL    | 2.5µL       | 2.50%                                                | 0.0625 | 2.00%                                             | 0.05   |
|              |           | 1.25µL      | 3.00%                                                | 0.0375 | 3.00%                                             | 0.0375 |
|              |           | 0.25µL      | 12.00%                                               | 0.03   | 6.00%                                             | 0.015  |
| 0.5~10µL     | 0.1µL     | 10µL        | 1.00%                                                | 0.1    | 0.80%                                             | 0.08   |
|              |           | 5µL         | 1.50%                                                | 0.075  | 1.50%                                             | 0.075  |
|              |           | 1µL         | 2.50%                                                | 0.025  | 1.50%                                             | 0.015  |
| 2~20µL       | 0.5µL     | 20µL        | 0.90%                                                | 0.18   | 0.40%                                             | 0.08   |
|              |           | 10µL        | 1.20%                                                | 0.12   | 1.00%                                             | 0.1    |
|              |           | 2µL         | 3.00%                                                | 0.06   | 2.00%                                             | 0.04   |
| 5~50µL       | 0.5µL     | 50µL        | 0.60%                                                | 0.3    | 0.30%                                             | 0.15   |
|              |           | 25µL        | 0.90%                                                | 0.225  | 0.60%                                             | 0.15   |
|              |           | 5µL         | 2.00%                                                | 0.1    | 2.00%                                             | 0.1    |
| 10~100µL     | 1µL       | 100µL       | 0.80%                                                | 0.8    | 0.15%                                             | 0.15   |
|              |           | 50µL        | 1.00%                                                | 0.5    | 0.40%                                             | 0.2    |
|              |           | 10µL        | 3.00%                                                | 0.3    | 1.50%                                             | 0.15   |
| 20~200µL     | 1µL       | 200µL       | 0.60%                                                | 1.2    | 0.15%                                             | 0.3    |
|              |           | 100µL       | 0.80%                                                | 0.8    | 0.30%                                             | 0.3    |
|              |           | 20µL        | 3.00%                                                | 0.6    | 1.00%                                             | 0.2    |
| 50~200µL     | 1µL       | 200µL       | 0.60%                                                | 1.2    | 0.15%                                             | 0.3    |
|              |           | 100µL       | 0.80%                                                | 0.8    | 0.30%                                             | 0.3    |
|              |           | 50µL        | 1.00%                                                | 0.5    | 0.40%                                             | 0.2    |
| 100~1000µL   | 5µL       | 1000µL      | 0.60%                                                | 6      | 0.20%                                             | 2      |
|              |           | 500µL       | 0.70%                                                | 3.5    | 0.25%                                             | 1.25   |
|              |           | 100µL       | 2.00%                                                | 2      | 0.70%                                             | 0.7    |
| 200~1000µL   | 5µL       | 1000µL      | 0.60%                                                | 6      | 0.20%                                             | 2      |
|              |           | 500µL       | 0.70%                                                | 3.5    | 0.25%                                             | 1.25   |
|              |           | 200µL       | 0.90%                                                | 1.8    | 0.30%                                             | 0.6    |
| 1000~5000µL  | 50µL      | 5000µL      | 0.50%                                                | 25     | 0.15%                                             | 7.5    |
|              |           | 2500µL      | 0.60%                                                | 15     | 0.30%                                             | 7.5    |
|              |           | 1000µL      | 0.70%                                                | 7      | 0.30%                                             | 3      |

## Fixed Volume Pipettes

| Volume Range | Increment | Test Volume | Maximum permissible systematic error<br>(Inaccuracy) |       | Maximum permissible random error<br>(Imprecision) |       |
|--------------|-----------|-------------|------------------------------------------------------|-------|---------------------------------------------------|-------|
|              |           |             | %                                                    | µL    | %                                                 | µL    |
| 5µL          | -         | 5µL         | 1.3%                                                 | 0.065 | 1.2%                                              | 0.06  |
| 10µL         | -         | 10µL        | 0.8%                                                 | 0.08  | 0.8%                                              | 0.08  |
| 20µL         | -         | 20µL        | 0.6%                                                 | 0.12  | 0.5%                                              | 0.1   |
| 25µL         | -         | 25µL        | 0.5%                                                 | 0.125 | 0.3%                                              | 0.075 |
| 50µL         | -         | 50µL        | 0.5%                                                 | 0.25  | 0.3%                                              | 0.15  |
| 100µL        | -         | 100µL       | 0.5%                                                 | 0.5   | 0.3%                                              | 0.3   |
| 200µL        | -         | 200µL       | 0.4%                                                 | 0.8   | 0.2%                                              | 0.4   |
| 250µL        | -         | 250µL       | 0.4%                                                 | 1.0   | 0.2%                                              | 0.5   |
| 500µL        | -         | 500µL       | 0.3%                                                 | 1.5   | 0.2%                                              | 1.0   |
| 1000µL       | -         | 1000µL      | 0.3%                                                 | 3.0   | 0.2%                                              | 2.0   |

## 18 channel Adjustable Volume Pipettes

| Volume Range | Increment | Test Volume | Maximum permissible systematic error<br>(Inaccuracy) |       | Maximum permissible random error<br>(Imprecision) |       |
|--------------|-----------|-------------|------------------------------------------------------|-------|---------------------------------------------------|-------|
|              |           |             | %                                                    | µL    | %                                                 | µL    |
| 0.5~10µL     | 0.1µL     | 10µL        | 1.50%                                                | 0.15  | 1.50%                                             | 0.15  |
|              |           | 5µL         | 2.50%                                                | 0.125 | 2.50%                                             | 0.125 |
|              |           | 1µL         | 4.00%                                                | 0.04  | 4.00%                                             | 0.04  |
| 5~50µL       | 0.5µL     | 50µL        | 1.00%                                                | 0.5   | 0.50%                                             | 0.25  |
|              |           | 25µL        | 1.50%                                                | 0.375 | 1.00%                                             | 0.25  |
|              |           | 5µL         | 3.00%                                                | 0.15  | 2.00%                                             | 0.1   |
| 50~300µL     | 5µL       | 300µL       | 0.70%                                                | 2.1   | 0.25%                                             | 0.75  |
|              |           | 150µL       | 1.00%                                                | 1.5   | 0.50%                                             | 0.75  |
|              |           | 50µL        | 1.50%                                                | 0.75  | 0.80%                                             | 0.4   |





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