



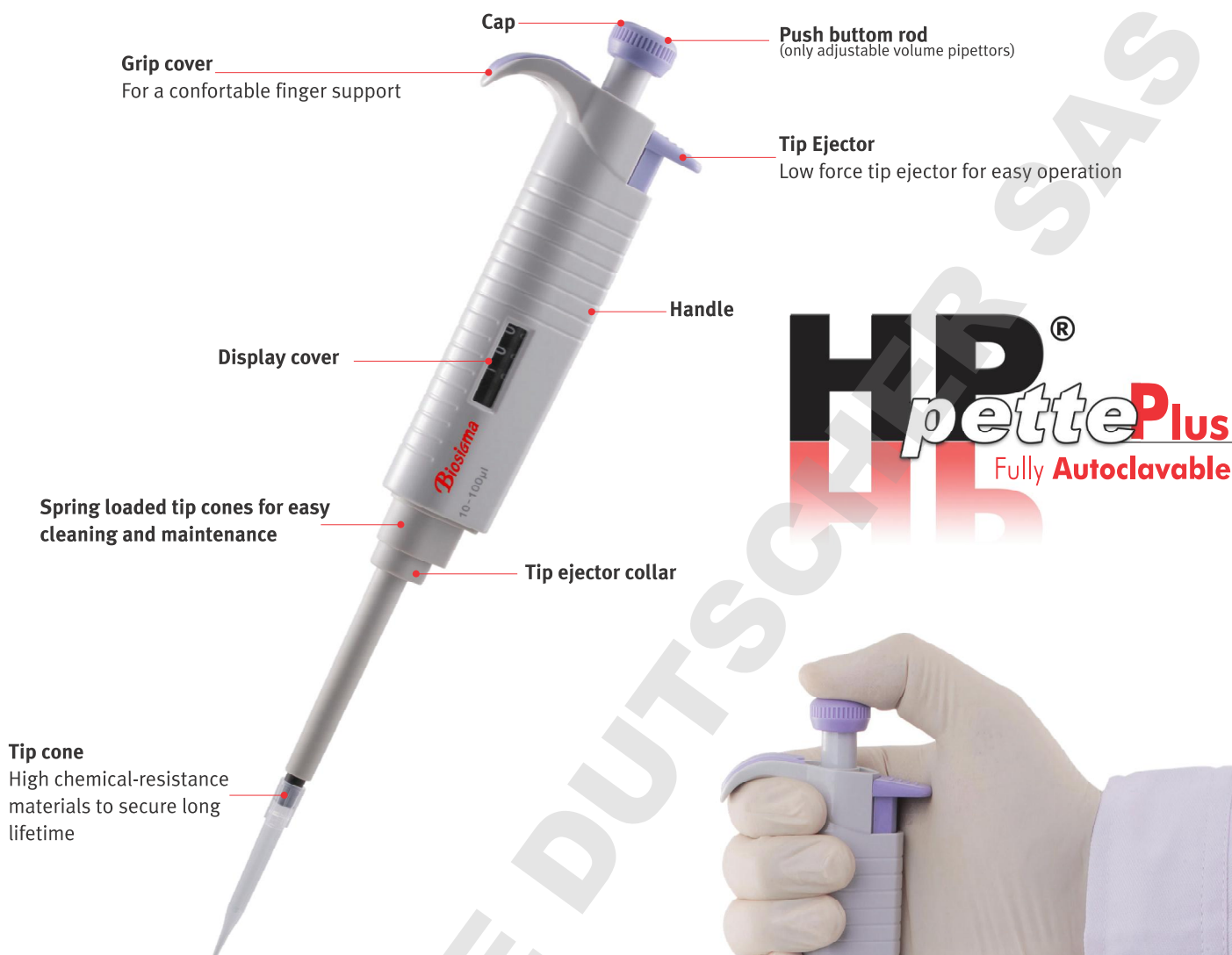
**HP**<sup>®</sup>  
**pettePlus**  
Fully Autoclavable



Fully **Autoclavable**

**HP**pette**Plus** HIGH PRECISION **MICROPIPETTE**

# MANUAL MICROPIPETTES WITH EJECTORS FULLY AUTOCLAVABLE



## FEATURES

- ▶ Fully autoclavable
- ▶ Slim design and light in weight, less risk if 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
- ▶ CE marked as in vitro diagnostic device according to Directive 98/79/EC

for compatibility with tips see pages 51 and 53

### 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         |
| ABS1240HPA | 250         | 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.



- ▶ Suitable for all pipette models
- ▶ With 5 stations

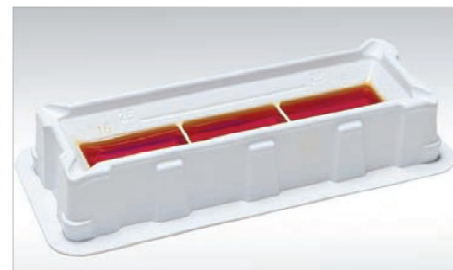
## Rack

| CAT. NO. | Description                                       | Sale unit |
|----------|---|-----------|
| 861006   | Pipettor stands in ABS for major pipettor brands. | 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



## 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  | 0.5-20      |            | 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      | 2000      | Eppendorf® - Gilson® - Socorex® - Nichiryo® - Pipetman® - Brand® - Clinipette® - Biohit® - Labssystem® - Excalibur® - HTL® - FinnpiPETTE® |
|    | 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® - Labssystem® - Excalibur® - HTL® - FinnpiPETTE® |
|  | 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® - Jencos® - Biohit® Old Model - Elakay® - HTL® - FinnpiPETTE® |
|   | 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® - FinnpiPETTE® Colour model |
|   | BSR019   |             |         | X       | Blister 5 pcs      | 500       |                                  |
|   | BSR049/N | 250-1000    |         |         | Rack 192 pcs       | 960       | Mla®                             |

## 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® - FinnpiPETTE®      |
|   | 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 HPpettePlus

| 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 | ABS1240HPA<br>250 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                    | X                         |                      |                       |                     |                       |
| BSR042        | 200-1000 µL light blue           |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     | X                   | X                    | X                         |                      |                       |                     |                       |
| BSR012        | 100-1000 µL blue                 |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                      |                       |                     |                       |
| BSR074        | 2-300 µl neutral in rack 96 pcs  |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                      |                       | X                   |                       |
| BSR067        | 100-1000 µl blue                 |                              |                       |                     |                     |                        |                       |                        | X                        | X                       |                          |                   |                    |                    |                     |                    |                     | X                   | X                    | X                         |                      |                       |                     |                       |
| BSR075        | 100-1000 µl blue                 |                              |                       |                     |                     |                        |                       |                        | X                        | 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              |                              |                       |                     |                     |                        |                       |                        |                          |                         |                          |                   |                    |                    |                     |                    |                     |                     |                      |                           |                      |                       |                     |                       |

# 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
- CE marking : conforms to the necessary Health & Safety regulations as set by European Directives
- IVD certification: All ClearLine® tips have been registered as In Vitro Diagnostic Devices and comply with the 98/79/ EC Directive
- The ISO 8655 norm, as established by an independent laboratory, guarantees that the ClearLine® tips do not alter the pipette's technical specifications as set by their manufacturer - Visit [www.dutscher.com/clearline](http://www.dutscher.com/clearline) to view the tips' compatibility test results with your pipettes.
- Autoclavable at 121°C
- Supplied in a rack with non removable lid, for under hood use

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)



Certification CE / IVD / ISO-8655

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

CE

IVD

ClearLine®

DNase  
RNase

Human  
DNA

PCR  
Inhibitors

Endo-  
toxins

Pyrogen

| 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

| Volume (µl) | Description                                      | Compatibility | Qty      | Standard tips |           | Low-binding tips |           |
|-------------|--|---------------|----------|---------------|-----------|------------------|-----------|
|             |  |               |          | 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**

| <div></div> <div>Micropipettes</div> |  | Micropipettes Single channel                                  |                       |                     |                     |                        |                       |                        |                          |                         |                   |                    |                    |                     |                    |                     |                     |                      |                      | Multichannel 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 | 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 | ABS1240HPA<br>250 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                             |   |                       |                     |                     |                        |                       |                        |                          |                         |                   |                    |                    |                     |                    |                     |                     |                      |                      |                        |                       |                     |                       |
| CLEARLINE STERILE FILTER TIPS RACKED | 028200CL<br>035200CL                       | 0.1 - 10 µL<br>Gilson-type<br>short tip<br>(length 28.8mm)    | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                      |                      |                        | X                     |                     |                       |
|                                      | 038000CL<br>038000TCL                      | 0.1 - 10 µL<br>long tip<br>(length 45mm)                      | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                      |                      |                        | X                     |                     |                       |
|                                      | 130340CL                                   | 0.1 - 10 µL<br>long fine tip<br>(length 45mm)                 | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                      |                      |                        | X                     |                     |                       |
|                                      | 015020CL<br>035210CL                       | 0.5 - 10 µL<br>Eppendorf-type<br>short tip<br>(length 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>(length 78mm)                       |                       |                     | X                   | X                      | X                     | X                      | X                        |                         |                   |                    | X                  | X                   | X                  | X                   | X                   |                      |                      |                        |                       | X                   |                       |
|                                      | 014200CL<br>035260CL                       | 100 - 1000 µL<br>long tip<br>(length 102mm)                   |                       |                     |                     |                        |                       |                        |                          | X                       | X                 |                    |                    |                     |                    |                     |                     | X                    | X                    | X                      |                       |                     |                       |
| 134000CL                             | 50 - 1250 µL long<br>tip<br>(length 102mm) |   |                       |                     |                     |                        |                       |                        | X                        | X                       |                   |                    |                    |                     |                    |                     | X                   | X                    | X                    |                        |                       |                     |                       |
| CLEARLINE NON-FILTER TIPS, RACKED    | 030560ACL<br>030570ACL                     | 0.1 - 10 µL long<br>fine tip<br>(length 45mm)                 | X                     | X                   |                     |                        |                       |                        |                          |                         | X                 | X                  |                    |                     |                    |                     |                     |                      |                      |                        | X                     |                     |                       |
|                                      | 037640CL<br>037660CL<br>037640TCL          | 0.1 - 10 µL<br>long tip<br>(length 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                    | X                      |                       |                     |                       |
|                                      | 134750CL<br>134760CL                       | 50 - 1250 µL<br>long tip                                      |                       |                     |                     |                        |                       |                        |                          | X                       | X                 |                    |                    |                     |                    |                     |                     | X                    | X                    | X                      |                       |                     |                       |

# Specifications

## Single-channel Adjustable Volume Pipettes

| Volume Range | Increment | Test Volume | Maximum permissible systematic error (Inaccuracy) |        | Maximum permissible random error (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 (Inaccuracy) |       | Maximum permissible random error (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 (Inaccuracy) |       | Maximum permissible random error (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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