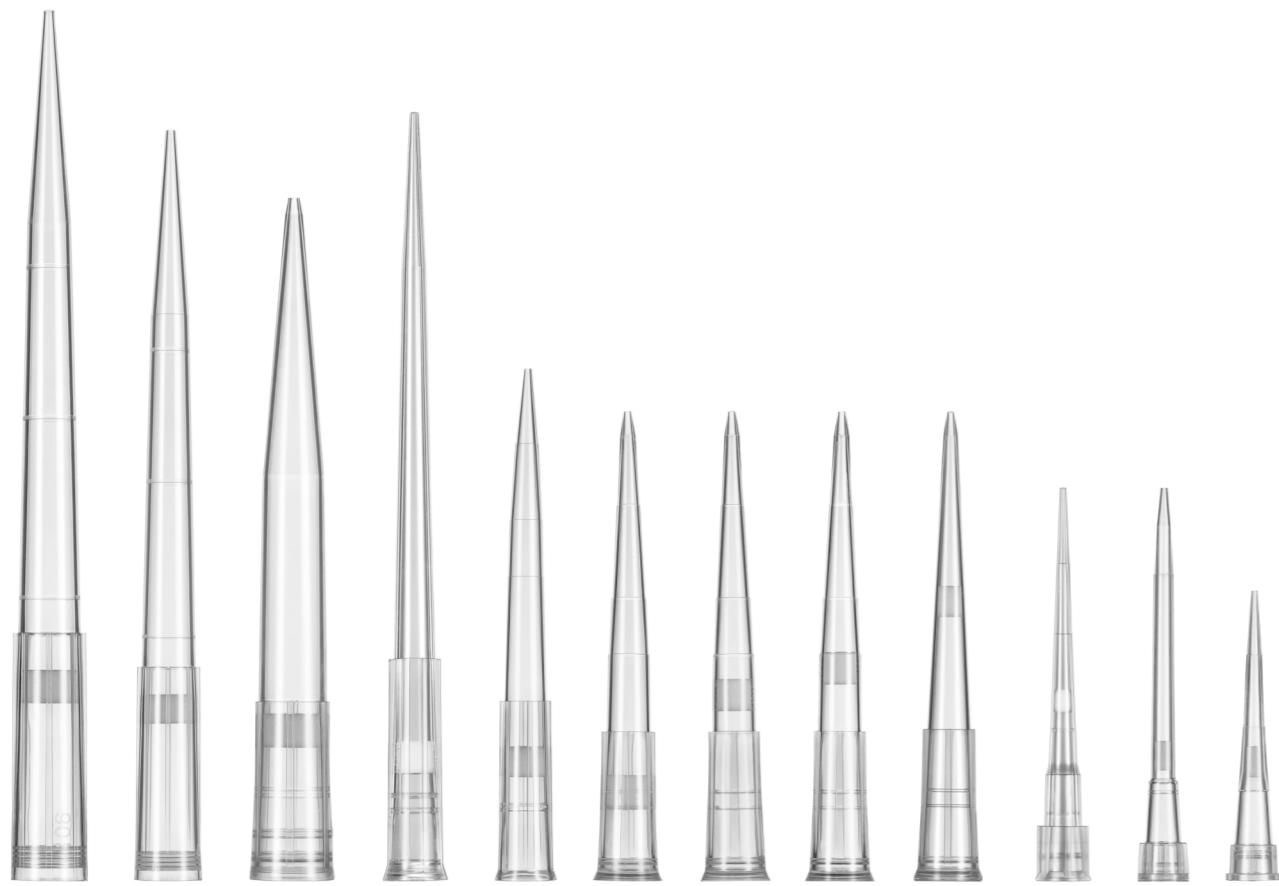


## CHAPTER 8

# Pipette Tips



PakGent Bioscience was founded as a manufacturer of the highest quality pipette tips in the world. For over decade years we have maintained this level, supply the worldwide market with our products in life sciences. And we have quite a variety on this product line from standard pipette tip to extra long design pipette tips, in different packs of them, bulk/rack/refill, with or without filter and low retention types.

All sterile products are irradiated electron beam radiation, which is same level as gamma irradiation but less harsh on plastics than radiation and does not leave toxic residues like gas sterilization usually does to the product.

All of our sterile pipette tips are manufactured out of the highest grade resins and are certified to be RNase, DNase, DNA, pyrogen, and ATP free. Our non-sterile tips are made from the same high quality resins and are certified RNase and DNase free as well.



| Length | Type   |
|--------|--|
| 32mm   | <b>10uL standard</b><br>  |
| 46mm   | <b>10uL extra long (bevelled)</b><br>   |
| 46mm   | <b>10uL extra long (thin &amp; sharp)</b><br>   |
| 51mm   | <b>200uL yellow, bevelled</b><br><br>standard 200uL, noramlly used 200uL in bulk pack, and 20uL with filter as filter tips                    |
| 51mm   | <b>200uL clear, bevelled</b><br><br>bigger body, gives 200uL volume even with filter, and 50uL/100uL filter tips are made of this type too. |
| 60mm   | <b>200uL extra long (straight)</b><br>  |
| 90mm   | <b>200uL super long</b><br><br>For some specific application   |
| 78mm   | <b>1000uL standard blue</b><br>  |
| 88mm   | <b>1000uL (medium)</b><br><br>For some specific application  |
| 102mm  | <b>1,000uL extra long (so called, 1,250uL) blue</b><br><br>Long enough to give 1,250uL max volume  |

**10uL, DNase/RNase free, 32mm**

| Part NO.    | Volume    | With Filter | Sterile | Package Type | Pack                                |
|-------------|-----------|-------------|---------|--------------|-------------------------------------|
| UFPT-10R    | 0.1-10 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-10   | 0.1-10 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-REF-10 | 0.1-10 ul | -           | Yes     | refill pack  | 96/rack, 10racks/unit, 10units/case |
| UFPT-10B    | 0.1-10 ul | -           | -       | bulk pack    | 1,000/bag, 40bags/case              |
| UFPT-F-10B  | 0.1-10 ul | Yes         | -       | bulk pack    | 1,000/bag, 40bags/case              |

**10uL extra long design, DNase/RNase free, 46mm**

| Part NO.    | Volume    | With Filter | Sterile | Package Type | Pack                   |
|-------------|-----------|-------------|---------|--------------|------------------------|
| UFPT-10ER   | 0.1-20 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-10E  | 0.1-20 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-10EB   | 0.1-20 ul | -           | -       | bulk pack    | 1,000/bag, 40bags/case |
| UFPT-F-10EB | 0.1-20 ul | Yes         | -       | bulk pack    | 1,000/bag, 40bags/case |

**10uL extra long, thin and sharp design, DNase/RNase free, 46mm**

| Part NO.      | Volume    | With Filter | Sterile | Package Type | Pack                               |
|---------------|-----------|-------------|---------|--------------|------------------------------------|
| UFPT-10ETR    | 0.1-20 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-F-10ET   | 0.1-20 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-REF-10ET | 0.1-20 ul | -           | Yes     | refill pack  | 96/rack, 9racks/unit, 10units/case |
| UFPT-10ETB    | 0.1-20 ul | -           | -       | bulk pack    | 1,000/bag, 40bags/case             |
| UFPT-F-10ETB  | 0.1-20 ul | Yes         | -       | bulk pack    | 1,000/bag, 40bags/case             |

**200uL standard, bevelled, DNase/RNase free, yellow, 51mm**

| Part NO.     | Volume   | With Filter | Sterile | Package Type | Pack                                |
|--------------|----------|-------------|---------|--------------|-------------------------------------|
| UFPT-200R    | 1-200 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-20    | 1-20 ul  | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-REF-200 | 1-200 ul | -           | Yes     | refill pack  | 96/rack, 12racks/unit, 10units/case |
| UFPT-200B    | 1-200 ul | -           | -       | bulk pack    | 1,000/bag, 20bags/case              |
| UFPT-F-20B   | 1-20 ul  | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case              |

## 200uL standard wide, Bevelled, DNase/RNase free, 51mm



| Part NO.    | Volume   | With Filter | Sterile | Package Type | Pack                   |
|-------------|----------|-------------|---------|--------------|------------------------|
| UFPT-F-50   | 1-50 ul  | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-100  | 1-100 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-200  | 1-200 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-50B  | 1-50 ul  | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case |
| UFPT-F-100B | 1-100 ul | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case |
| UFPT-F-200B | 1-200 ul | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case |

## Some specific application

## 200uL extra long or 300uL, straight, DNase/RNase free, 60mm



| Part NO.      | Volume   | With Filter | Sterile | Package Type | Pack                                |
|---------------|----------|-------------|---------|--------------|-------------------------------------|
| UFPT-200ER    | 1-300 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-100E   | 1-150 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-200E   | 1-300 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-REF-200E | 1-300 ul | -           | Yes     | refill pack  | 96/rack, 10racks/unit, 10units/case |
| UFPT-200EB    | 1-300 ul | -           | -       | bulk pack    | 1,000/bag, 20bags/case              |
| UFPT-F-200EB  | 1-300 ul | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case              |

## 1000uL standard, DNase/RNase free, blue, 78mm



| Part NO.     | Volume       | With Filter | Sterile | Package Type | Pack                   |
|--------------|--------------|-------------|---------|--------------|------------------------|
| UFPT-1000R   | 100-1,000 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-1000  | 100-1,000 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-1000B   | 100-1,000 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case |
| UFPT-F-1000B | 100-1,000 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case |

## 1000uL extra long or 1250uL, DNase/RNase free, blue, 102mm



| Part NO.       | Volume       | With Filter | Sterile | Package Type | Pack                               |
|----------------|--------------|-------------|---------|--------------|------------------------------------|
| UFPT-1000ER    | 100-1,200 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-F-1000E   | 100-1,200 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-REF-1000E | 100-1,000 ul | -           | Yes     | refill pack  | 96/rack, 8racks/unit, 10units/case |
| UFPT-1000EB    | 100-1,200 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case             |
| UFPT-F-1000EB  | 100-1,000 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case             |

## Super long 200uL, DNase/RNase free, 90mm



| Part NO.     | Volume   | With Filter | Sterile | Package Type | Pack                   |
|--------------|----------|-------------|---------|--------------|------------------------|
| UFPT-200SR   | 1-200 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-200S  | 1-200 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-200SB   | 1-200 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case |
| UFPT-F-200SB | 1-200 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case |

## Medium long 1000uL, DNase/RNase free, 88mm

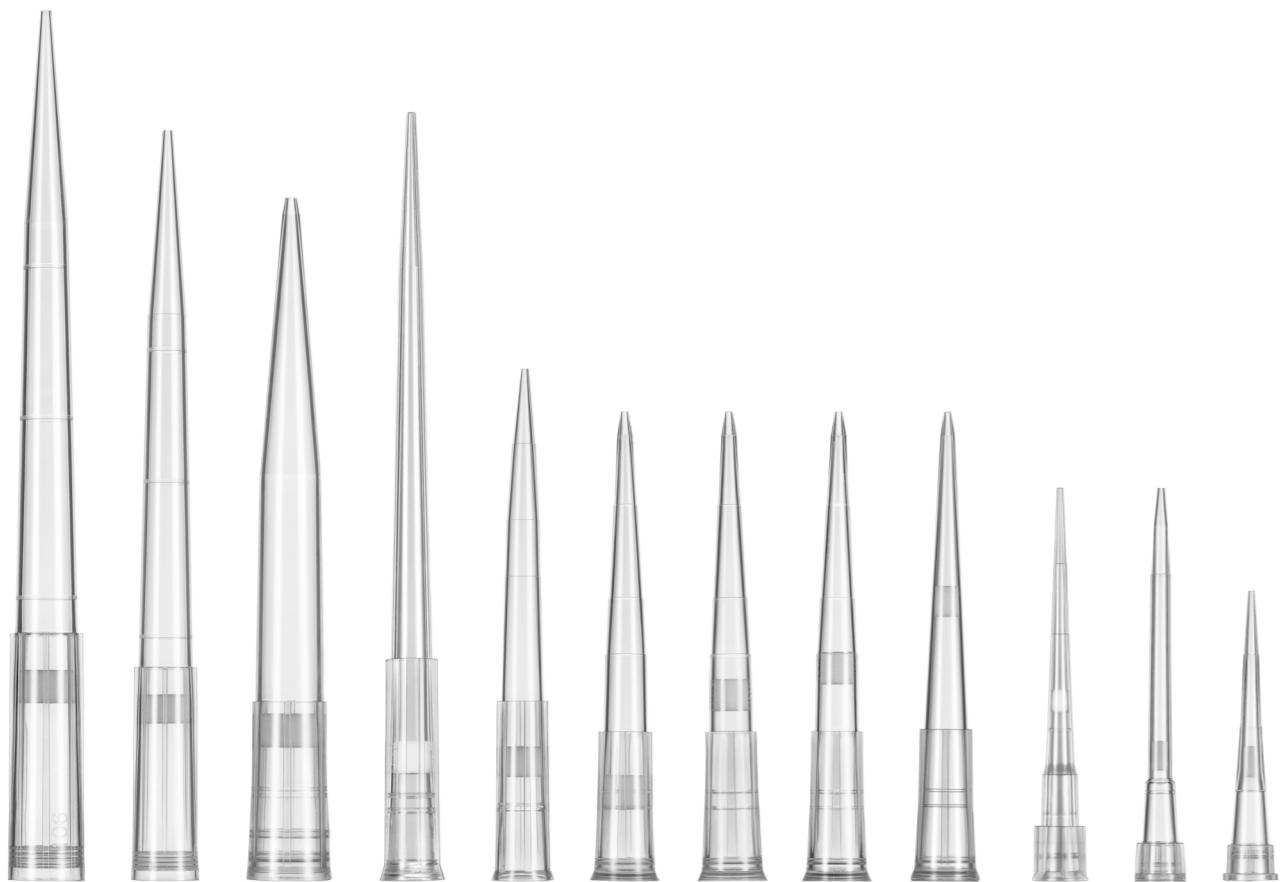


| Part NO.      | Volume       | With Filter | Sterile | Package Type | Pack                   |
|---------------|--------------|-------------|---------|--------------|------------------------|
| UFPT-1000MR   | 100-1,000 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-1000M  | 100-1,000 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-1000MB   | 100-1,000 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case |
| UFPT-F-1000MB | 100-1,000 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case |



## CHAPTER 9

# Low Retention Pipette Tips



Low Retention pipette tips are specifically designed for applications requiring high accuracy and reproducibility especially pipetting viscous liquids in complex reactions such as PCR, RT PCR, and DNA sequencing. Pipetting viscous liquids also creates pipetting problems due to the inability to expel fluid because of surface adhesion between the liquid and the inside of the pipette tip. This fluid retention can be quite a problem because of residual liquid typically remain in the pipette tip after the operation.

Visit our website at [www.pakgentbio.com](http://www.pakgentbio.com) for more details.

- Improves Sample Accuracy.
- Increases Reliability.
- Saves Expensive Reagents.
- Precise Sample Delivery.
- Sterile Product is certified RNase, ATP, DNA, DNase and pyrogen free.



## 10uL, DNase/RNase free, low retention, 32mm



| Part NO.      | Volume    | With Filter | Sterile | Package Type | Pack                                |
|---------------|-----------|-------------|---------|--------------|-------------------------------------|
| UFPT-10R-L    | 0.1-10 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-10-L   | 0.1-10 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-REF-10-L | 0.1-10 ul | -           | Yes     | refill pack  | 96/rack, 10racks/unit, 10units/case |
| UFPT-10B-L    | 0.1-10 ul | -           | -       | bulk pack    | 1,000/bag, 40bags/case              |
| UFPT-F-10B-L  | 0.1-10 ul | Yes         | -       | bulk pack    | 1,000/bag, 40bags/case              |

## 200uL standard, bevelled, DNase/RNase free, low retention, 51mm



| Part NO.      | Volume   | With Filter | Sterile | Package Type | Pack                   |
|---------------|----------|-------------|---------|--------------|------------------------|
| UFPT-F-50-L   | 1-50 ul  | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-100-L  | 1-100 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-200-L  | 1-200 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-50B-L  | 1-50 ul  | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case |
| UFPT-F-100B-L | 1-100 ul | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case |
| UFPT-F-200B-L | 1-200 ul | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case |

## 10uL extra long design, DNase/RNase free, low retention, 46mm



| Part NO.      | Volume    | With Filter | Sterile | Package Type | Pack                   |
|---------------|-----------|-------------|---------|--------------|------------------------|
| UFPT-10ER-L   | 0.1-20 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-10E-L  | 0.1-20 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-10EB-L   | 0.1-20 ul | -           | -       | bulk pack    | 1,000/bag, 40bags/case |
| UFPT-F-10EB-L | 0.1-20 ul | Yes         | -       | bulk pack    | 1,000/bag, 40bags/case |

## 200uL extra long or 300uL, straight, DNase/RNase free, low retention, 60mm



| Part NO.        | Volume   | With Filter | Sterile | Package Type | Pack                                |
|-----------------|----------|-------------|---------|--------------|-------------------------------------|
| UFPT-200ER-L    | 1-300 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-100E-L   | 1-150 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-200E-L   | 1-300 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-REF-200E-L | 1-300 ul | -           | Yes     | refill pack  | 96/rack, 10racks/unit, 10units/case |
| UFPT-200EB-L    | 1-300 ul | -           | -       | bulk pack    | 1,000/bag, 20bags/case              |
| UFPT-F-200EB-L  | 1-300 ul | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case              |

## 10uL extra long, thin and sharp design, DNase/RNase free, low retention, 46mm



| Part NO.        | Volume    | With Filter | Sterile | Package Type | Pack                               |
|-----------------|-----------|-------------|---------|--------------|------------------------------------|
| UFPT-10ETR-L    | 0.1-20 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-F-10ET-L   | 0.1-20 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-REF-10ET-L | 0.1-20 ul | -           | Yes     | refill pack  | 96/rack, 9racks/unit, 10units/case |
| UFPT-10ETB-L    | 0.1-20 ul | -           | -       | bulk pack    | 1,000/bag, 40bags/case             |
| UFPT-F-10ETB-L  | 0.1-20 ul | Yes         | -       | bulk pack    | 1,000/bag, 40bags/case             |

## 1000uL standard, DNase/RNase free, low retention, 78mm



| Part NO.       | Volume       | With Filter | Sterile | Package Type | Pack                   |
|----------------|--------------|-------------|---------|--------------|------------------------|
| UFPT-1000R-L   | 100-1,000 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-1000-L  | 100-1,000 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-1000B-L   | 100-1,000 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case |
| UFPT-F-1000B-L | 100-1,000 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case |

## 200uL standard wide, bevelled, DNase/RNase free, low retention, clear, 51mm



| Part NO.       | Volume   | With Filter | Sterile | Package Type | Pack                                |
|----------------|----------|-------------|---------|--------------|-------------------------------------|
| UFPT-200R-L    | 1-200 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-F-20-L    | 1-20 ul  | Yes         | Yes     | rack pack    | 96/rack, 50racks/case               |
| UFPT-REF-200-L | 1-200 ul | -           | Yes     | refill pack  | 96/rack, 12racks/unit, 10units/case |
| UFPT-200B-L    | 1-200 ul | -           | -       | bulk pack    | 1,000/bag, 20bags/case              |
| UFPT-F-20B-L   | 1-20 ul  | Yes         | -       | bulk pack    | 1,000/bag, 20bags/case              |

## 1000uL extra long or 1250uL, DNase/RNase free, low retention, 102mm



| Part NO.         | Volume       | With Filter | Sterile | Package Type | Pack                               |
|------------------|--------------|-------------|---------|--------------|------------------------------------|
| UFPT-1000ER-L    | 100-1,200 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-F-1000E-L   | 100-1,000 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case              |
| UFPT-REF-1000E-L | 100-1,200 ul | -           | Yes     | refill pack  | 96/rack, 8racks/unit, 10units/case |
| UFPT-1000EB-L    | 100-1,200 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case             |
| UFPT-F-1000EB-L  | 100-1,000 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case             |

## Some specific application

Super long 200uL, DNase/RNase free, low retention, 90mm



| Part NO.       | Volume   | With Filter | Sterile | Package Type | Pack                   |
|----------------|----------|-------------|---------|--------------|------------------------|
| UFPT-200SR-L   | 1-200 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-200S-L  | 1-200 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-200SB-L   | 1-200 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case |
| UFPT-F-200SB-L | 1-200 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case |

Medium long 1000uL, DNase/RNase free, low retention, 88mm



| Part NO.        | Volume       | With Filter | Sterile | Package Type | Pack                   |
|-----------------|--------------|-------------|---------|--------------|------------------------|
| UFPT-1000MR-L   | 100-1,000 ul | -           | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-F-1000M-L  | 100-1,000 ul | Yes         | Yes     | rack pack    | 96/rack, 50racks/case  |
| UFPT-1000MB-L   | 100-1,000 ul | -           | -       | bulk pack    | 1,000/bag, 10bags/case |
| UFPT-F-1000MB-L | 100-1,000 ul | Yes         | -       | bulk pack    | 1,000/bag, 10bags/case |

## CHAPTER 10

# Compatibility List

## (Pipette Tip)

Continuously updating





