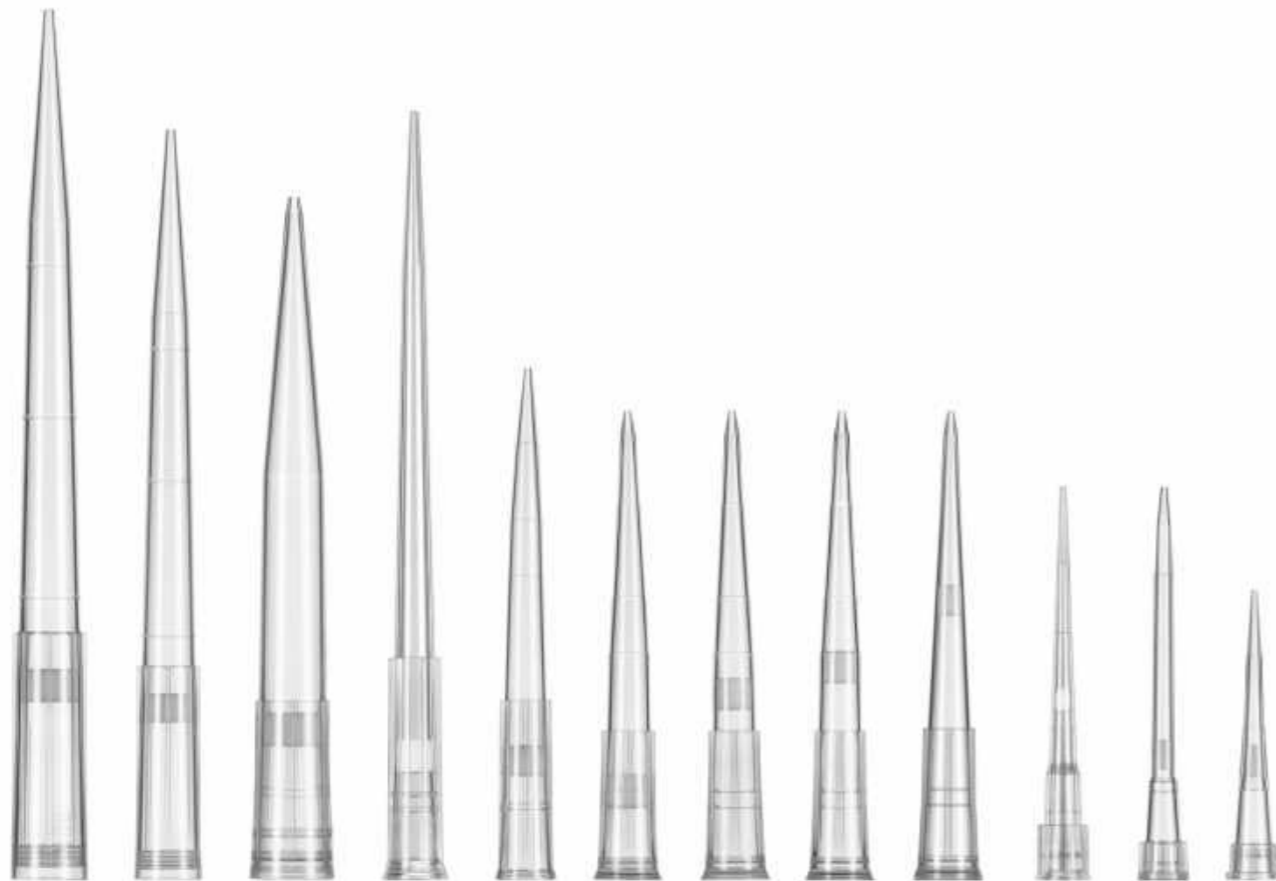# CHAPTER **8**

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   **10uL standard**

46mm   **10uL extra long (bevelled)**

46mm   **10uL extra long (thin & sharp)**

51mm   **200uL yellow, bevelled**

standard 200uL, noramlly used 200uL in bulk pack, and 20uL with filter as filter tips

51mm   **200uL clear, bevelled**

bigger body, gives 200uL volume even with filter, and 50uL/100uL filter tips are made of this type too.

60mm   **200uL extra long (straight)**

90mm   **200uL super long**

For some specific application

78mm   **1000uL standard blue**

88mm   **1000uL (medium)**

For some specific application

102mm   **1,000uL extra long (so called,1,250uL) blue**

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

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	100-1,200 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	100-1,200 ul	Yes	-	bulk pack	1,000/bag, 10bags/case

Some specific application

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
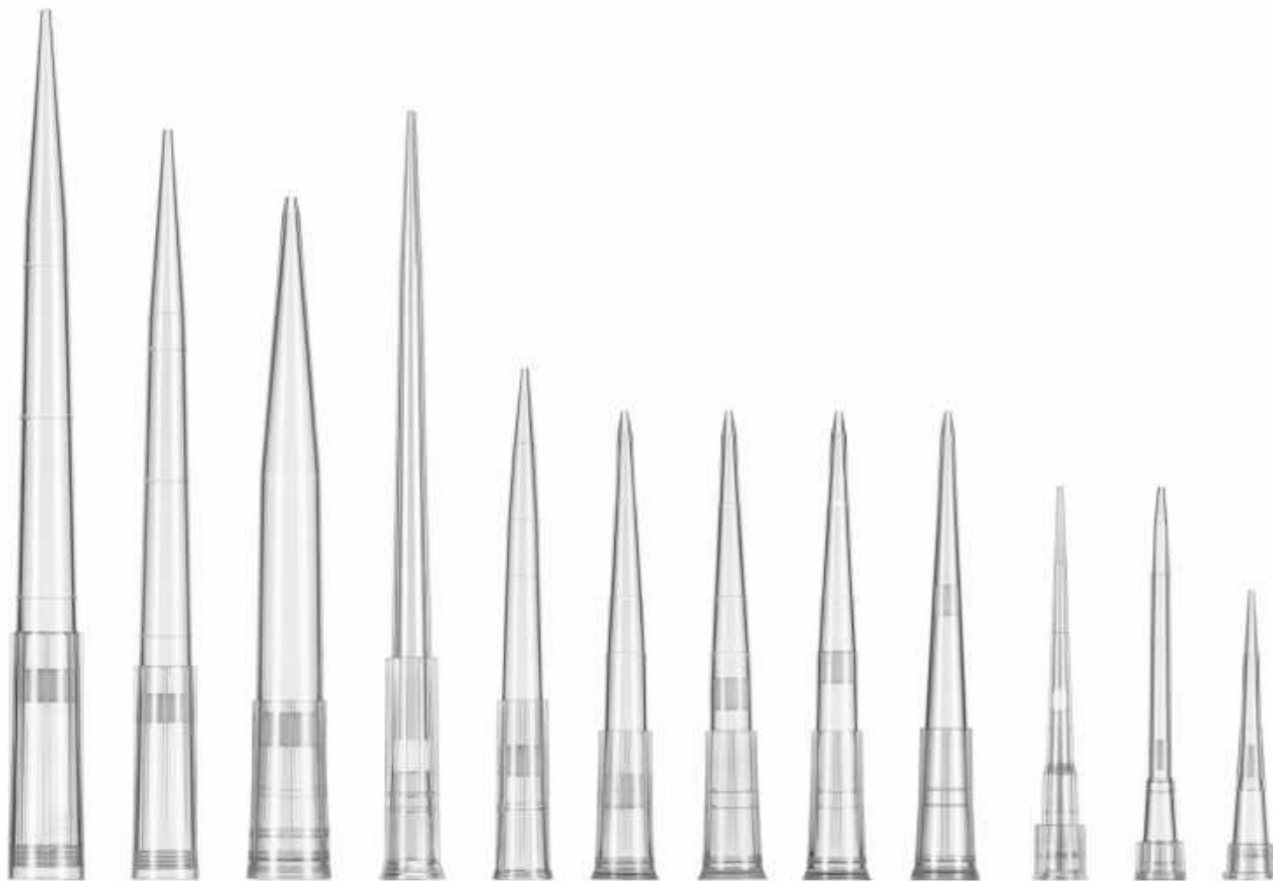
low Retention pipette tips are specifically designed for applications requiring high accuracy and reproducibility especially pipetting viscous liquides in complex reactions such as PCR, RT PCR, and DNA sequencing. Pipetting viscous liquids also creates pipetting problems due to the inability to expel 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 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

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

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

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

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

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

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

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	100-1,200 ul	Yes	Yes	rack pack	96/rack, 50racks/case
UFPT-REF-1000E-L	100-1,200 ul	-	Yes	refill pack	96/rack, 8acks/unit, 10units/case
UFPT-1000EB-L	100-1,200 ul	-	-	bulk pack	1,000/bag, 10bags/case
UFPT-F-1000EB-L	100-1,200 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

EPPENDORF — PIPETTE TIPS / FILTER TIPS

Column groups — PIPETTE TIPS: UFPT-10B, UFPT-10EB, UFPT-10ETB, UFPT-10R, UFPT-REF-10, UFPT-10ER, UFPT-10ETR, UFPT-REF-10ET, UFPT-200B, UFPT-200R, UFPT-REF-200, UFPT-200SB, UFPT-200SR, UFPT-300B, UFPT-200ER, UFPT-REF-200E, UFPT-1000B, UFPT-1000R, UFPT-1000EB, UFPT-1000ER, UFPT-REF-1000E, UFPT-1000MB, UFPT-1000MR — FILTER TIPS: UFPT-F-10, UFPT-F-10B, UFPT-F-10E, UFPT-F-10EB, UFPT-F-10ETB, UFPT-F-10ET, UFPT-F-20, UFPT-F-20B, UFPT-F-50, UFPT-F-50B, UFPT-F-100, UFPT-F-100B, UFPT-F-200, UFPT-F-200B, UFPT-F-200E, UFPT-F-200EB, UFPT-F-200S, UFPT-F-200SB, UFPT-F-1000, UFPT-F-1000B, UFPT-F-1000M, UFPT-F-1000MB, UFPT-F-1000E, UFPT-F-1000EB

PIPETTE BRAND	PRODUCT NO.	10B	10EB	10ETB	10R	REF-10	10ER	10ETR	REF-10ET	200B	200R	REF-200	200SB	200SR	300B	200ER	REF-200E	1000B	1000R	1000EB	1000ER	REF-1000E	1000MB	1000MR	F-10	F-10B	F-10E	F-10EB	F-10ETB	F-10ET	F-20	F-20B	F-50	F-50B	F-100	F-100B	F-200	F-200B	F-200E	F-200EB	F-200S	F-200SB	F-1000	F-1000B	F-1000M	F-1000MB	F-1000E	F-1000EB
Eppendorf Research Plus	0.1-2.5ul-1(dark gray)	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	0.5-10ul-12(grey)	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	0.5-10-1(grey)	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	0.5-10ul-8(grey)	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	2-20ul-1(light gray)	√	√	√	√	√	√	√	√																	√	√	√	√	√																		
	2-20ul-1(yellow)									√	√	√																			√	√	√	√	√	√												
	10-100ul-1									√	√	√	√	√																	√	√	√	√	√	√												
	10-100ul-8									√	√	√	√	√	√	√	√														√	√	√	√	√	√					√	√						
	10-100ul-12									√	√	√	√	√	√	√	√														√	√	√	√	√	√					√	√						
	20-200ul-1									√	√	√	√	√	√	√	√														√	√	√	√	√	√	√	√	√	√	√	√						
	30-300ul-12									√	√	√	√	√	√	√	√														√	√	√	√	√	√					√	√						
	30-300ul-1									√	√	√	√	√	√	√	√														√	√	√	√	√	√	√	√	√	√	√	√						
	100-1000ul-1																	√	√	√	√	√	√	√																			√	√	√	√	√	√
	120-1200ul-8																		√	√	√	√	√																						√	√	√	√

GILSON

PIPETTE BRAND	PRODUCT NO.	10B	10EB	10ETB	10R	REF-10	10ER	10ETR	REF-10ET	200B	200R	REF-200	200SB	200SR	300B	200ER	REF-200E	1000B	1000R	1000EB	1000ER	REF-1000E	1000MB	1000MR	F-10	F-10B	F-10E	F-10EB	F-10ETB	F-10ET	F-20	F-20B	F-50	F-50B	F-100	F-100B	F-200	F-200B	F-200E	F-200EB	F-200S	F-200SB	F-1000	F-1000B	F-1000M	F-1000MB	F-1000E	F-1000EB
GILSON PIPETMAN (PN)	2-20ul-1									√	√	√																			√	√																
	10-100ul-1									√	√	√	√	√	√	√	√																√	√	√	√												
GILSON PIPETMAN (PL)	1-10ul-8	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	2-20ul-8									√	√	√			√	√	√														√	√																
	20-200ul-1									√	√	√	√	√	√	√	√																√	√	√	√	√	√	√	√	√	√						
	20-200ul-8									√	√	√	√	√	√	√	√																√	√	√	√	√	√	√	√	√	√						
	100-1000ul-1																	√	√	√	√	√	√	√																			√	√	√	√	√	√

THERMO

PIPETTE BRAND	PRODUCT NO.	10B	10EB	10ETB	10R	REF-10	10ER	10ETR	REF-10ET	200B	200R	REF-200	200SB	200SR	300B	200ER	REF-200E	1000B	1000R	1000EB	1000ER	REF-1000E	1000MB	1000MR	F-10	F-10B	F-10E	F-10EB	F-10ETB	F-10ET	F-20	F-20B	F-50	F-50B	F-100	F-100B	F-200	F-200B	F-200E	F-200EB	F-200S	F-200SB	F-1000	F-1000B	F-1000M	F-1000MB	F-1000E	F-1000EB
Thermo Finnpipette (F1)	5-50ul-8									√	√	√	√	√	√	√	√														√	√	√	√	√	√	√	√	√	√	√	√						
Thermo Finnpipette (F2)	10-100ul-8									√	√	√	√	√																	√	√	√	√	√	√	√	√			√	√						
Thermo Finnpipette (F3)	1-10ul-1(µTip)	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	1-10ul-1									√	√	√	√	√	√	√	√														√	√	√	√														
	2-20ul-1									√	√	√			√	√	√														√	√																
	2-20ul-1(µTip)	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	5-50ul-1									√	√	√	√	√	√	√	√																√	√	√	√	√	√	√	√	√	√						
	5-50ul-1(µTip)	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	100-1200ul-8																		√	√	√	√	√																						√	√	√	√

BIOHIT		PIPETTE TIPS																							FILTER TIPS																								
PIPETTE BRAND	PRODUCT NO.	UFPT-10B	UFPT-10EB	UFPT-10ETB	UFPT-10R	UFPT-REF-10	UFPT-10ER	UFPT-10ETR	UFPT-REF-10ET	UFPT-200B	UFPT-200R	UFPT-REF-200	UFPT-200SB	UFPT-200SR	UFPT-300B	UFPT-200ER	UFPT-REF-200E	UFPT-1000B	UFPT-1000R	UFPT-1000EB	UFPT-1000ER	UFPT-REF-1000E	UFPT-1000MB	UFPT-1000MR	UFPT-F-10	UFPT-F-10B	UFPT-F-10E	UFPT-F-10EB	UFPT-F-10ETB	UFPT-F-10ET	UFPT-F-20	UFPT-F-20B	UFPT-F-50	UFPT-F-50B	UFPT-F-100	UFPT-F-100B	UFPT-F-200	UFPT-F-200B	UFPT-F-200E	UFPT-F-200EB	UFPT-F-200S	UFPT-F-200SB	UFPT-F-1000	UFPT-F-1000B	UFPT-F-1000M	UFPT-F-1000MB	UFPT-F-1000E	UFPT-F-1000EB
PIPETTE VOLUME		0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	1-200ul	1-200ul	1-200ul	1-200ul	1-200ul	1-300ul	1-300ul	1-300ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	1-20UL	1-20UL	1-50ul	1-50ul	1-100ul	1-100ul	1-200ul	1-200ul	1-300ul	1-300ul	1-200ul	1-200ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul
BIOHIT PROLINE	0.5-10ul-12	√		√	√	√		√	√																√	√		√	√																			
	2-20ul-1									√	√	√	√	√																	√	√	√	√	√	√												
	5-50ul-8									√	√	√	√	√	√	√	√																√	√	√	√	√	√	√	√							
	50-300ul-8									√	√	√	√	√	√	√	√																√	√	√	√	√	√	√	√	√	√						
	100-1000ul-1																	√	√	√	√	√	√	√																			√	√	√	√	√	√
BRAND	0.5-10ul-8	√	√	√	√	√	√	√	√																√	√	√	√	√	√																		
	5-50ul-1									√	√	√	√	√																			√	√	√	√	√	√										
	10-100ul-8									√	√	√	√	√	√	√	√																√	√	√	√	√	√	√	√							
	30-300ul-12									√	√	√	√	√	√	√	√																√	√	√	√	√	√	√	√							
DLAB	0.5-10ul-8	√	√		√	√	√																		√	√	√	√																			
	2-20ul-1									√	√	√	√	√	√	√	√														√	√	√	√	√	√											
	5-50ul-1									√	√	√	√	√	√	√	√														√	√	√	√	√	√											
	10-100ul-1									√	√	√	√	√	√	√	√														√	√	√	√	√	√	√	√	√	√	√	√						
	50-300ul-8																														√	√	√	√	√	√	√	√	√	√	√	√						
	100-1000ul-1																	√	√	√	√	√	√	√																			√	√	√	√	√	√

RAININ (XLS)

PIPETTE TIPS

PRODUCT NO.	RT20R	RT20B	RT20-REF	RT20R-L	RT20B-L	RT20-REF-L	RT200R	RT200B	RT200-REF	RT200R-L	RT200B-L	RT200-REF-L	RT300R	RT300B	RT300-REF	RT300R-L	RT300B-L	RT300-REF-L	RT1000R	RT1000B	RT1000-REF	RT1000R-L	RT1000B-L	RT1000-REF-L	RT1200R	RT1200B	RT1200R-L	RT1200B-L
PIPETTE VOLUME	0.1-20UL	0.1-20UL	0.1-20UL	0.1-20UL	0.1-20UL	0.1-20UL	1-200UL	1-200UL	1-200UL	1-200UL	1-200UL	1-200UL	1-300UL	1-300UL	1-300UL	1-300UL	1-300UL	1-300UL	100-1000UL	100-1000UL	100-1000UL	100-1000UL	100-1000UL	100-1000UL	120-1200UL	120-1200UL	120-1200UL	120-1200UL
0.5-10ul-12	√	√	√	√	√	√																						
2-20ul-1	√	√	√	√	√	√																						
5-50ul-8							√	√	√	√	√	√																
20-200ul-8							√	√	√	√	√	√																
30-300ul-1													√	√	√	√	√	√										
100-1000ul-1																			√	√	√	√	√	√	√	√	√	√
120-1200ul-8																			√	√	√	√	√	√	√	√	√	√

FILTER TIPS

PRODUCT NO.	RT20RF	RT20BF	RT20RF-L	RT20BF-L	RT200RF	RT200BF	RT2000RF-L	RT200BF-L	RT300RF	RT300BF	RT3000RF-L	RT300BF-L	RT1000RF	RT1000BF	RT1000RF-L	RT1000BF-L	RT1200RF	RT1200BF	RT1200BF-L	RT1200RF-L
PIPETTE VOLUME	0.1-20UL	0.1-20UL	0.1-20UL	0.1-20UL	1-200UL	1-200UL	1-200UL	1-200UL	1-300UL	1-300UL	1-300UL	1-300UL	100-1000UL	100-1000UL	100-1000UL	100-1000UL	120-1200UL	120-1200UL	120-1200UL	120-1200UL
0.5-10ul-12	√	√	√	√																
2-20ul-1	√	√	√	√																
5-50ul-8					√	√	√	√												
20-200ul-8					√	√	√	√												
30-300ul-1									√	√	√	√								
100-1000ul-1													√	√	√	√	√	√	√	
120-1200ul-8													√	√	√	√	√	√	√	√

Pipette Brand: Rainin pipette Lite (XLS)

RAININ (PL)

PIPETTE TIPS

PRODUCT NO.	UFPT-10R	UFPT-REF-10	UFPT-10B	UFPT-10ER	UFPT-10EB	UFPT-10ETR	UFPT-REF-10ET	UFPT-10ETB	UFPT-200R	UFPT-REF-200	UFPT-200B	UFPT-200ER	UFPT-REF-200E	UFPT-200EB	UFPT-200SR	UFPT-200SB	UFPT-1000R	UFPT-1000B	UFPT-1000ER	UFPT-REF-1000E	UFPT-1000EB	UFPT-1000MR	UFPT-1000MB
PIPETTE VOLUME	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	1-200ul	1-200ul	1-200ul	1-200ul	1-300ul	1-200ul	1-200ul	1-200ul	1-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul
0.1-2ul	√	√	√	√	√	√	√	√															
0.5-10ul	√	√	√	√	√	√	√	√															
2-20ul									√	√	√	√	√	√	√	√							
10-100ul									√	√	√	√	√	√	√	√							
20-200ul									√	√	√	√	√	√	√	√							
100-1000ul																	√	√	√	√	√	√	√

FILTER TIPS

PRODUCT NO.	UFPT-F-10	UFPT-F-10B	UFPT-F-10E	UFPT-F-10EB	UFPT-F-10ET	UFPT-F-10ETB	UFPT-F-20	UFPT-F-20B	UFPT-F-50	UFPT-F-50B	UFPT-F-100	UFPT-F-100B	UFPT-F-200	UFPT-F-200B	UFPT-F-200E	UFPT-F-200EB	UFPT-F-200S	UFPT-F-200SB	UFPT-F-1000	UFPT-F-1000B	UFPT-F-1000M	UFPT-F-1000MB	UFPT-F-1000E	UFPT-F-1000EB
PIPETTE VOLUME	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	0.1-10UL	1-20UL	1-20UL	1-50ul	1-50ul	1-100ul	1-100ul	1-200ul	1-200ul	1-300ul	1-300ul	1-200ul	1-200ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul	100-1000ul
0.1-2ul	√	√	√	√	√	√																		
0.5-10ul	√	√	√	√	√	√																		
2-20ul							√	√	√	√	√	√	√	√										
10-100ul							√	√	√	√	√	√	√	√	√	√	√	√						
20-200ul							√	√	√	√	√	√	√	√	√	√								
100-1000ul																			√	√	√	√	√	√

Pipette Brand: Rainin pipette Lite (PL)

PIPETTE BRAND		Eppendorf		Thermo scientific		Biohit		DLAB		Brand		PakGent	
		Research plus	Research plus	Finnpipette F3	Finnpipette F3	Proline Plus	Proline Plus	HiPette	HiPette	Transferpette® S	Transferpette® S	Transferpette® S	Transferpette® S
PRODUCT NO.	PIPETTE VOLUME	0.5-5ml	1-10ml	0.5-5ml	1-10ml	500-5000ul	1-10ml	1000-5000ul	2-10ml	500-5000ul	1000-10000ul	500-5000ul	1000-10000ul
PT-5000B-E	500-5000ul	√				√		√					
PT-5000BF-E	500-5000ul	√				√		√					
PT-5000R-E	500-5000ul	√				√		√					
PT-5000RF-E	500-5000ul	√				√		√					
PT-10000B-E	1000-10000ul		√				√		√				
PT-10000BF-E	1000-10000ul		√				√		√				
PT-10000R-E	1000-10000ul		√				√		√				
PT-10000RF-E	1000-10000ul		√				√		√				
PT-5000B-T	500-5000ul			√						√		√	
PT-5000BF-T	500-5000ul			√						√		√	
PT-5000R-T	500-5000ul			√						√		√	
PT-5000RF-T	500-5000ul			√						√		√	
PT-10000B-T	1000-10000ul				√						√		√
PT-10000BF-T	1000-10000ul				√						√		√
PT-10000R-T	1000-10000ul				√						√		√
PT-10000RF-T	1000-10000ul				√						√		√

CHAPTER 11

Pipette Tips (To Fit LTS Pipette)

This product line is designed to fit LTS Pipette.

- Easy to handle for operator.
- Easier/lighter to eject.
- More accurate sample delivery.

- Seal well between Pipette and Pipette tip.
- Available in rack/refill pack with or without filter.
- Low retention version is available.
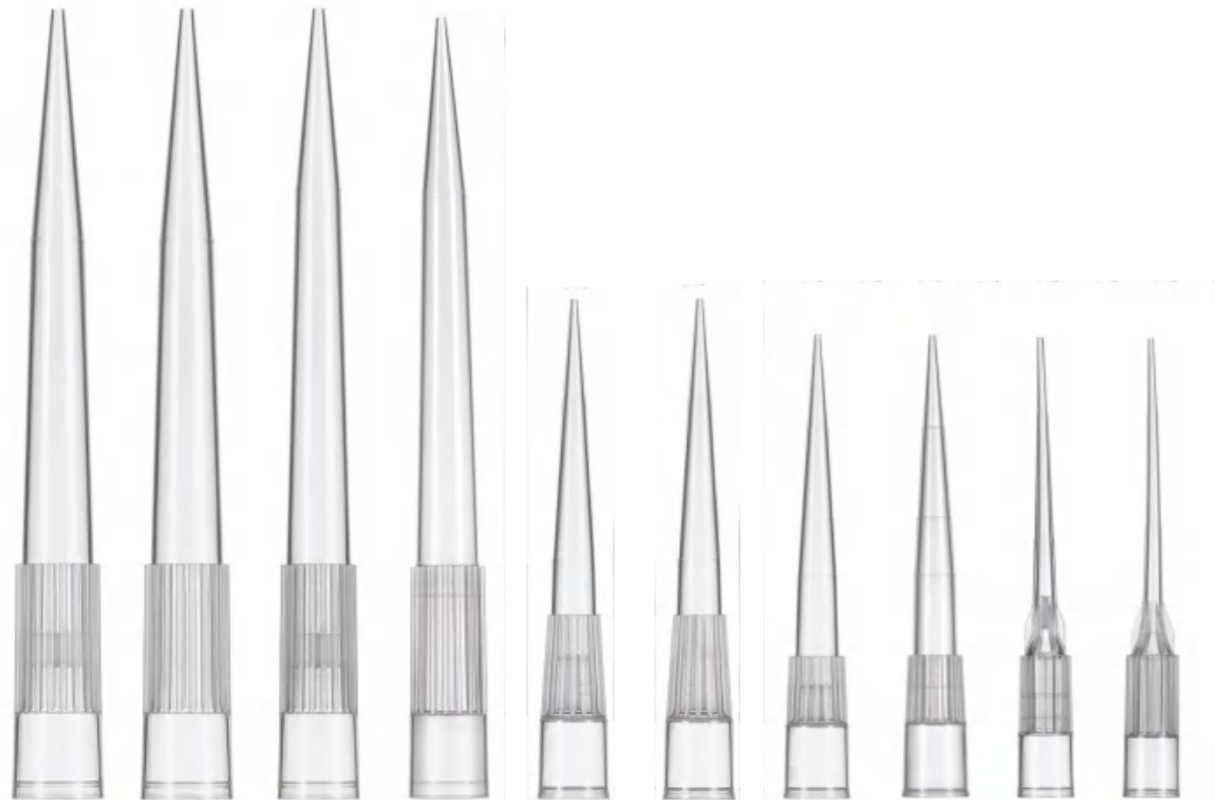
20ul Fit LTS Pipette, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT20R	-	-	rack pack	96/rack, 50racks/case
RT20R-L	-	Yes	rack pack	96/rack, 50racks/case
RT20RF	Yes	-	rack pack	96/rack, 50racks/case
RT20RF-L	Yes	Yes	rack pack	96/rack, 50racks/case
RT20B	-	-	bulk pack	1,000/bag, 40bags/case
RT20B-L	-	Yes	bulk pack	1,000/bag, 40bags/case
RT20BF	Yes	-	bulk pack	1,000/bag, 40bags/case
RT20BF-L	Yes	Yes	bulk pack	1,000/bag, 40bags/case
RT20-REF	-	-	refill pack	96/rack, 10racks/unit, 10units/case
RT20-REF-L	-	Yes	refill pack	96/rack, 10racks/unit, 10units/case

200ul Fit LTS Pipette, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT200R	-	-	rack pack	96/rack, 50racks/case
RT200R-L	-	Yes	rack pack	96/rack, 50racks/case
RT200RF	Yes	-	rack pack	96/rack, 50racks/case
RT200RF-L	Yes	Yes	rack pack	96/rack, 50racks/case
RT200B	-	-	bulk pack	1,000/bag, 20bags/case
RT200B-L	-	Yes	bulk pack	1,000/bag, 20bags/case
RT200BF	Yes	-	bulk pack	1,000/bag, 20bags/case
RT200BF-L	Yes	Yes	bulk pack	1,000/bag, 20bags/case
RT200-REF	-	-	refill pack	96/rack, 10racks/unit, 10units/case
RT200-REF-L	-	Yes	refill pack	96/rack, 10racks/unit, 10units/case

300ul Fit LTS Pipette, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT300R	-	-	rack pack	96/rack, 50racks/case
RT300R-L	-	Yes	rack pack	96/rack, 50racks/case
RT300RF	Yes	-	rack pack	96/rack, 50racks/case
RT300RF-L	Yes	Yes	rack pack	96/rack, 50racks/case
RT300B	-	-	bulk pack	1,000/bag, 20bags/case
RT300B-L	-	Yes	bulk pack	1,000/bag, 20bags/case
RT300BF	Yes	-	bulk pack	1,000/bag, 20bags/case
RT300BF-L	Yes	Yes	bulk pack	1,000/bag, 20bags/case
RT300-REF	-	-	refill pack	96/rack, 8racks/unit, 10units/case
RT300-REF-L	-	Yes	refill pack	96/rack, 8racks/unit, 10units/case

1000ul Fit LTS Pipette, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT1000R	-	-	rack pack	96/rack, 50racks/case
RT1000R-L	-	Yes	rack pack	96/rack, 50racks/case
RT1000RF	Yes	-	rack pack	96/rack, 50racks/case
RT1000RF-L	Yes	Yes	rack pack	96/rack, 50racks/case
RT1000B	-	-	bulk pack	1,000/bag, 10bags/case
RT1000B-L	-	Yes	bulk pack	1,000/bag, 10bags/case
RT1000BF	Yes	-	bulk pack	1,000/bag, 10bags/case
RT1000BF-L	Yes	Yes	bulk pack	1,000/bag, 10bags/case
RT1000-REF	-	-	refill pack	96/rack, 8racks/unit, 10units/case
RT1000-REF-L	-	Yes	refill pack	96/rack, 8racks/unit, 10units/case

1200ul Fit LTS Pipette, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT1200R	-	-	rack pack	96/rack, 50racks/case
RT1200R-L	-	Yes	rack pack	96/rack, 50racks/case
RT1200RF	Yes	-	rack pack	96/rack, 50racks/case
RT1200RF-L	Yes	Yes	rack pack	96/rack, 50racks/case
RT1200B	-	-	bulk pack	1,000/bag, 10bags/case
RT1200B-L	-	Yes	bulk pack	1,000/bag, 10bags/case
RT1200BF	Yes	-	bulk pack	1,000/bag, 10bags/case
RT1200BF-L	Yes	Yes	bulk pack	1,000/bag, 10bags/case

CHAPTER 12

Pipette Tips
(Large volume tip)

- Easy to Use: Soft and flexible material for easy tip loading &ejection, universal filtered pipette tips lower the risk of repetitive stress injury (RSI).
- The smooth inner surface can prevent leakage and residues.
- Convenient & Sterile: Pipette tips rack pack allows direct loading into pipettor without hand touch, higher sterility and efficiency as well as a relief for repeated acts.
- Wildely Application: Compatible with most brands such as Eppendorf, Biohit, DLAB, Brand, Thermo, etc.

5ml, clear, fit Eppendorf, Biohit, DLAB Pipette

Part NO.	With Filter	Sterile	Package Type	Pack
PT-5000R-E	-	Yes	rack pack	24/rack, 30racks/case
PT-5000RF-E	Yes	Yes	rack pack	24/rack, 30racks/case
PT-5000B-E	-	-	bulk pack	100/bag, 20bags/case
PT-5000BF-E	Yes	-	bulk pack	100/bag, 20bags/case

10ml, clear, fit Eppendorf, Biohit, DLAB Pipette

Part NO.	With Filter	Sterile	Package Type	Pack
PT-10000R-E	-	Yes	rack pack	24/rack, 40racks/case
PT-10000RF-E	Yes	Yes	rack pack	24/rack, 40racks/case
PT-10000B-E	-	-	bulk pack	100/bag, 10bags/case
PT-10000BF-E	Yes	-	bulk pack	100/bag, 10bags/case

5ml, clear, fit Thermo, Brand Pipette

Part NO.	With Filter	Sterile	Package Type	Pack
PT-5000R-T	-	Yes	rack pack	40/rack, 40racks/case
PT-5000RF-T	Yes	Yes	rack pack	40/rack, 40racks/case
PT-5000B-T	-	-	bulk pack	100/bag, 20bags/case
PT-5000BF-T	Yes	-	bulk pack	100/bag, 20bags/case

10ml, clear, fit Thermo, Brand Pipette
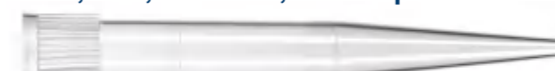
Part NO.	With Filter	Sterile	Package Type	Pack
PT-10000R-T	-	Yes	rack pack	24/rack, 40racks/case
PT-10000RF-T	Yes	Yes	rack pack	24/rack, 40racks/case
PT-10000B-T	-	-	bulk pack	100/bag, 10bags/case
PT-10000BF-T	Yes	-	bulk pack	100/bag, 10bags/case

CHAPTER **13**
Robotic Pipette Tips

PakGent Bioscience offers a wide range of pipet tips for automated robotic workstations like, Tecan, Hamilton, Beckman etc.

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.

Automated workstations actually require much tighter tolerances to the robotic tips than those of standard manual pipet tips. So we strongly suggest to purchase pre-sterilized products than non sterilized products which needs autoclaving, and autoclaving can warp the tips slightly.

Robotic Tip Tecan®

Fits Tecan Genesis Freedom®, Freedom EVO® and Miniprep with LiHa®

50uL Clear Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT050T	-	-	rack pack	96/rack, 30racks/case
RT050T-L	-	Yes	rack pack	96/rack, 30racks/case
RT050TF	Yes	-	rack pack	96/rack, 30racks/case
RT050TF-L	Yes	Yes	rack pack	96/rack, 30racks/case

200uL Clear Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT200T	-	-	rack pack	96/rack, 30racks/case
RT200T-L	-	Yes	rack pack	96/rack, 30racks/case
RT200TF	Yes	-	rack pack	96/rack, 30racks/case
RT200TF-L	Yes	Yes	rack pack	96/rack, 30racks/case

1000uL Clear Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT1000T	-	-	rack pack	96/rack, 60racks/case
RT1000T-L	-	Yes	rack pack	96/rack, 60racks/case
RT1000TF	Yes	-	rack pack	96/rack, 60racks/case
RT1000TF-L	Yes	Yes	rack pack	96/rack, 60racks/case

50uL Conductive Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT050TX	-	-	rack pack	96/rack, 30racks/case
RT050TX-L	-	Yes	rack pack	96/rack, 30racks/case
RT050TFX	Yes	-	rack pack	96/rack, 30racks/case
RT050TFX-L	Yes	Yes	rack pack	96/rack, 30racks/case

200uL Conductive Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT200TX	-	-	rack pack	96/rack, 30racks/case
RT200TX-L	-	Yes	rack pack	96/rack, 30racks/case
RT200TFX	Yes	-	rack pack	96/rack, 30racks/case
RT200TFX-L	Yes	Yes	rack pack	96/rack, 30racks/case

1000uL Conductive Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT1000TX	-	-	rack pack	96/rack, 60racks/case
RT1000TX-L	-	Yes	rack pack	96/rack, 60racks/case
RT1000TFX	Yes	-	rack pack	96/rack, 60racks/case
RT1000TFX-L	Yes	Yes	rack pack	96/rack, 60racks/case

Robotic Tip Hamilton®

Fits Hamilton Star®, Starlet and Nimbus®

50ul Clear Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT050H	-	-	rack pack	96/rack, 30racks/case
RT050H-L	-	Yes	rack pack	96/rack, 30racks/case
RT050HF	Yes	-	rack pack	96/rack, 30racks/case
RT050HF-L	Yes	Yes	rack pack	96/rack, 30racks/case

300uL Clear Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT300H	-	-	rack pack	96/rack, 30racks/case
RT300H-L	-	Yes	rack pack	96/rack, 30racks/case
RT300HF	Yes	-	rack pack	96/rack, 30racks/case
RT300HF-L	Yes	Yes	rack pack	96/rack, 30racks/case

1000uL Clear Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT1000H	-	-	rack pack	96/rack, 60racks/case
RT1000H-L	-	Yes	rack pack	96/rack, 60racks/case
RT1000HF	Yes	-	rack pack	96/rack, 60racks/case
RT1000HF-L	Yes	Yes	rack pack	96/rack, 60racks/case

50uL Conductive Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT050HX	-	-	rack pack	96/rack, 30racks/case
RT050HX-L	-	Yes	rack pack	96/rack, 30racks/case
RT050HFX	Yes	-	rack pack	96/rack, 30racks/case
RT050HFX-L	Yes	Yes	rack pack	96/rack, 30racks/case

300uL Conductive Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT300HX	-	-	rack pack	96/rack, 30racks/case
RT300HX-L	-	Yes	rack pack	96/rack, 30racks/case
RT300HFX	Yes	-	rack pack	96/rack, 30racks/case
RT300HFX-L	Yes	Yes	rack pack	96/rack, 30racks/case

1000uL Conductive Tip, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT1000HX	-	-	rack pack	96/rack, 60racks/case
RT1000HX-L	-	Yes	rack pack	96/rack, 60racks/case
RT1000HFX	Yes	-	rack pack	96/rack, 60racks/case
RT1000HFX-L	Yes	Yes	rack pack	96/rack, 60racks/case

Robotic Tip Beckman®

Fits Becman FX/NX, Multimek AP96 and Biomek3000

50uL Clear Tip, rack, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT050B	-	-	rack pack	96/rack, 50racks/case
RT050B-L	-	Yes	rack pack	96/rack, 50racks/case
RT050BF	Yes	-	rack pack	96/rack, 50racks/case
RT050BF-L	Yes	Yes	rack pack	96/rack, 50racks/case

250uL Clear Tip, rack, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT250B	-	-	rack pack	96/rack, 50racks/case
RT250B-L	-	Yes	rack pack	96/rack, 50racks/case
RT250BF	Yes	-	rack pack	96/rack, 50racks/case
RT250BF-L	Yes	Yes	rack pack	96/rack, 50racks/case

Robotic Tip Agilent®

Fits Agilent®, Agilent Bravo®

250uL Clear Tip, rack, sterile

Part NO.	With Filter	Low Retention	Package Type	Pack
RT250A	-	-	rack pack	96/rack, 50racks/case
RT250AF	Yes	-	rack pack	96/rack, 50racks/case