



**PakGent®**  
**SAFER LAB**  
**LIGHTER**  
**EASIER TO HANDLE**

**PakGent®**

Find out more at [www.pakgentbio.com](http://www.pakgentbio.com)

✉ [info@pakgentbio.com](mailto:info@pakgentbio.com)



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**PAKGENT BIOSCIENCE**



Liquid handling consumables of Universal Fit pipette tips, PCR plates, robotic tips and subsidiary consumables.

- Top class machine, mold and quality management system to achieve the best efficiency and quality
- Leading to automatic packing process to achieve the highest consistency and efficiency
- LEAN production
- Statistic process control
- Best resources in Molding technology
- Injection molding process
- ODM from Mold Design & Building through Injection cycle till finished product

**100,000**  
class clean room certification

**20+**  
years in Life Science Industry

**6**  
sigma management

**CE/ISO**  
certification

**FDA**  
certification

Our Chief Application Scientist and Co-Founder: Dr. Gao  
Post-Doctor in Harvard Medical School, Boston, MA  
Over twenty years Research in Top 40 related Pharma R&D center in USA.



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## SAFER LAB

## LIGHTER

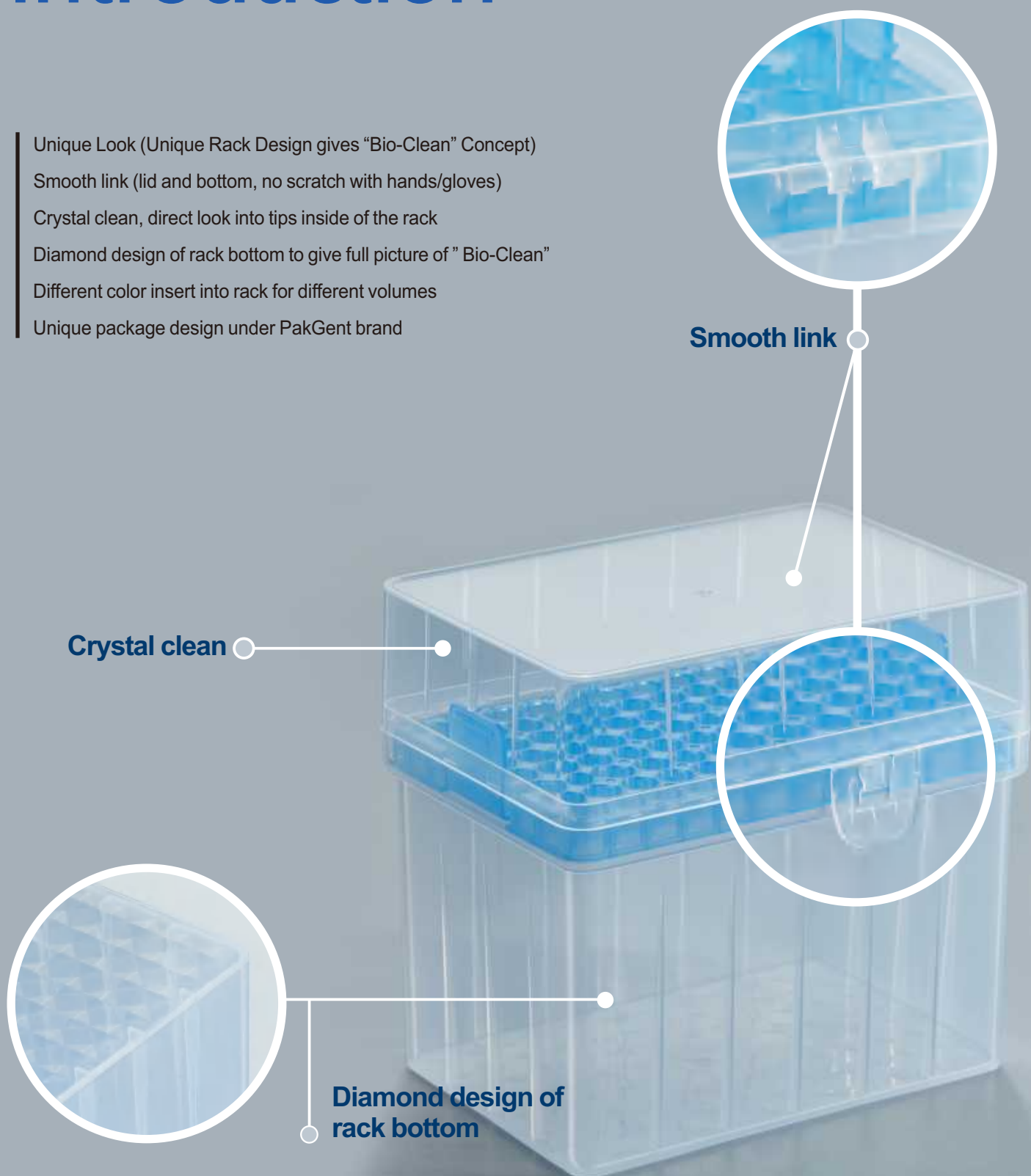
## EASIER TO HANDLE

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# CHAPTER 1

## Introduction

- Unique Look (Unique Rack Design gives "Bio-Clean" Concept)
- Smooth link (lid and bottom, no scratch with hands/gloves)
- Crystal clean, direct look into tips inside of the rack
- Diamond design of rack bottom to give full picture of "Bio-Clean"
- Different color insert into rack for different volumes
- Unique package design under PakGent brand



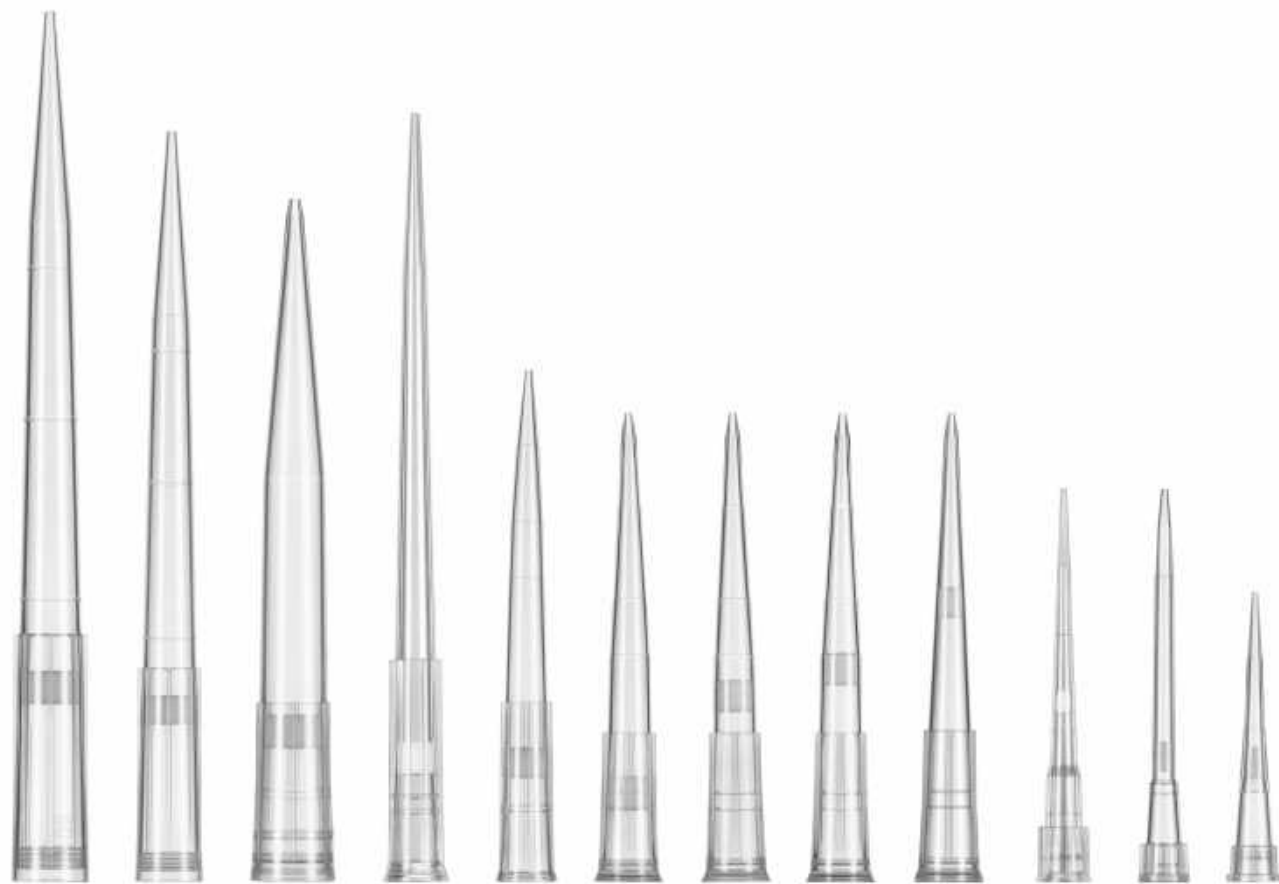
### Pipet Tips Features & Benefits

Universal fit pipette tip means fitting with most global popular pipettes, includes single channel and multi-channel pipette. An excellent fitting performance means fitting most popular global brands of pipettes. As one of the world leading suppliers in pipette tip manufacturing, our goal is to continue providing the best fitting tips in the worldwide market. Dimensions and applications vary from one pipette to the next, therefore we offer a variety of pipette tips for our customers.

PakGent pipette tips are made from 100% virgin polypropylene and are precision-molded for an airtight fit using state-of-the-art molds and molding methods, 100% guarantee of no mold release agent used in the manufacturing process.

<b>Sterile Tips</b>	All of our sterile tip products are gamma irradiation or electron beam sterilized. Certificate of irradiation is available upon request. Please contact your sales rep for information on how to receive a certificate for your products.
<b>Autoclavable Tips &amp; Racks</b>	Pipette tips and racks are autoclavable at a recommended temperature of 121° Cat 15 P.S.I for 15 minutes.
<b>Filter Tips</b>	Specifically designed for PCR work, helps to prevent cross-contamination when contact with the pipette.
<b>Low Retention Tips</b>	These low retention tips minimize liquid retention and ensure optimum sample yield.
<b>Robotic Tips</b>	Manufactured with 100% virgin polypropylene, and the racks are designed to endure the applied pressures of automated workstations.
<b>Certified Pipette Tips</b>	All of our tips are tested by an independent laboratory and certified to be RNase and DNase free. Sterile products are certified to be free from RNase, DNase, DNA, pyrogens, bioburden, PCR inhibitors, and verified sterile.











# CHAPTER 2 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>	
46mm	<b>10uL extra long (bevelled)</b>	
46mm	<b>10uL extra long (thin &amp; sharp)</b>	
51mm	<b>200uL yellow, bevelled</b>	 standard 200uL, normally used 200uL in bulk pack, and 20uL with filter as filter tips
51mm	<b>200uL clear, bevelled</b>	 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>	
90mm	<b>200uL super long</b>	 For some specific application
80mm	<b>1000uL standard blue</b>	
88mm	<b>1000uL (medium)</b>	 For some specific application
102mm	<b>1,000uL extra long (so called, 1,250uL) blue</b>	 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	0.1-10 ul	-	Yes	rack pack	96/rack, 50racks/case
UFPT-F-10E	0.1-10 ul	Yes	Yes	rack pack	96/rack, 50racks/case
UFPT-10EB	0.1-10 ul	-	-	bulk pack	1,000/bag, 40bags/case
UFPT-F-10EB	0.1-10 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	0.1-10 ul	-	Yes	rack pack	96/rack, 50racks/case
UFPT-F-10ET	0.1-10 ul	Yes	Yes	rack pack	96/rack, 50racks/case
UFPT-REF-10ET	0.1-10 ul	-	Yes	refill pack	96/rack, 9racks/unit, 10units/case
UFPT-10ETB	0.1-10 ul	-	-	bulk pack	1,000/bag, 40bags/case
UFPT-F-10ETB	0.1-10 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-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, 80mm**

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	100-1,000 ul	-	Yes	rack pack	96/rack, 50racks/case
UFPT-F-1000E	100-1,000 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	100-1,000 ul	-	-	bulk pack	1,000/bag, 10bags/case
UFPT-F-1000EB	100-1,000 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 3

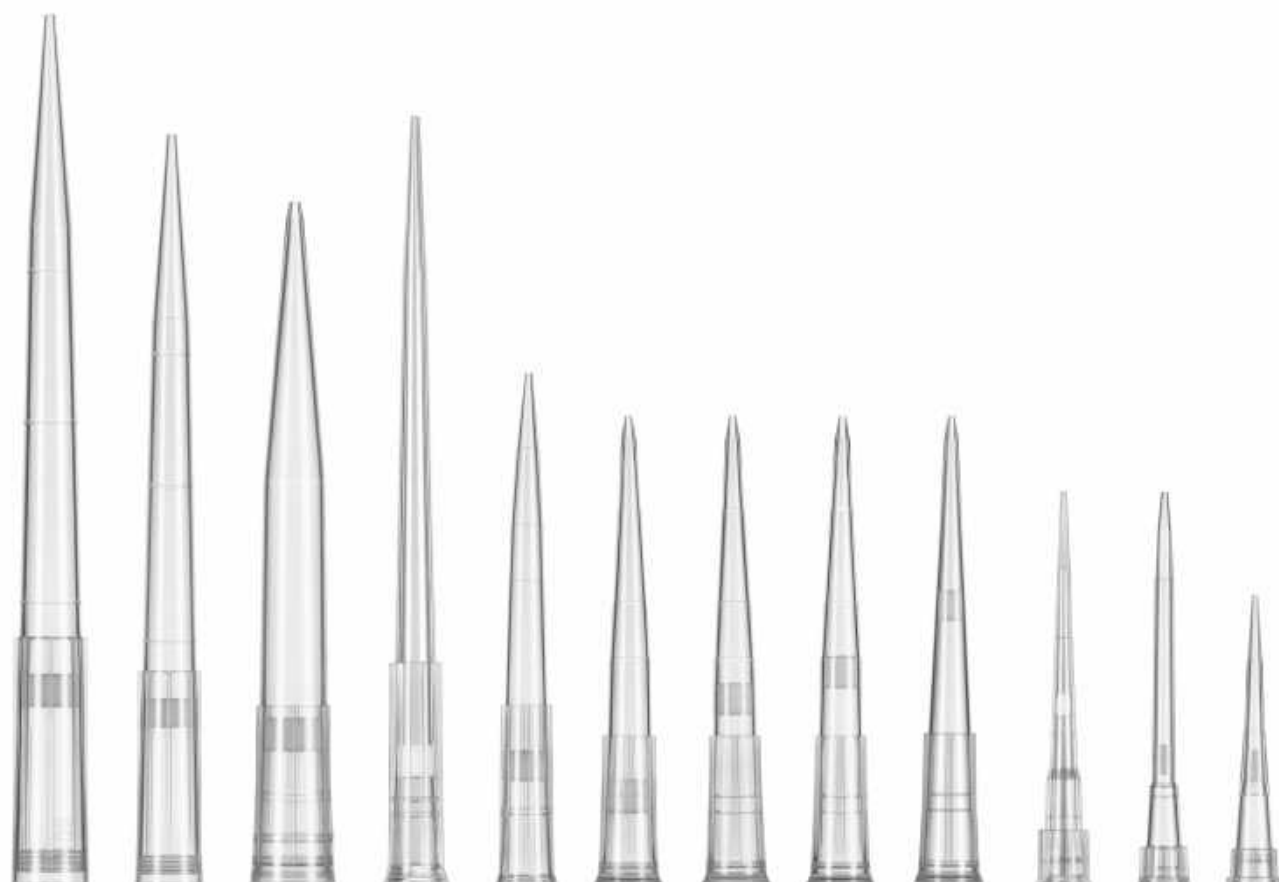
# Low Retention Pipette Tips

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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

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

Part NO.	Volume	With Filter	Sterile	Package Type	Pack
UFPT-10ER-L	0.1-10 ul	-	Yes	rack pack	96/rack, 50racks/case
UFPT-F-10E-L	0.1-10 ul	Yes	Yes	rack pack	96/rack, 50racks/case
UFPT-10EB-L	0.1-10 ul	-	-	bulk pack	1,000/bag, 40bags/case
UFPT-F-10EB-L	0.1-10 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	0.1-10 ul	-	Yes	rack pack	96/rack, 50racks/case
UFPT-F-10ET-L	0.1-10 ul	Yes	Yes	rack pack	96/rack, 50racks/case
UFPT-REF-10ET-L	0.1-10 ul	-	Yes	refill pack	96/rack, 9racks/unit, 10units/case
UFPT-10ETB-L	0.1-10 ul	-	-	bulk pack	1,000/bag, 40bags/case
UFPT-F-10ETB-L	0.1-10 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-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, 80mm**

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	100-1,000 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	100-1,000 ul	-	Yes	refill pack	96/rack, 8racks/unit, 10units/case
UFPT-1000EB-L	100-1,000 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 4

# Compatibility List

## (Pipette Tip)





# PAKGENT® PIPETTE TIP COMPATIBILITY LIST (UNIVERSAL FIT)

**SAFER LAB,  
LIGHTER,  
EASIER TO HANDLE.**



# PAKGENT® PIPETTE TIP COMPATIBILITY LIST (UNIVERSAL FIT)

**SAFER LAB,  
LIGHTER,  
EASIER TO HANDLE.**



PIPETTE BRAND		Eppendorf		Thermo scientific		Biohit		DLAB		Brand	
		Research plus	Research plus	Finnpipette F3	Finnpipette F3	Proline Plus	Proline Plus	HiPette	HiPette	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
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				√						√



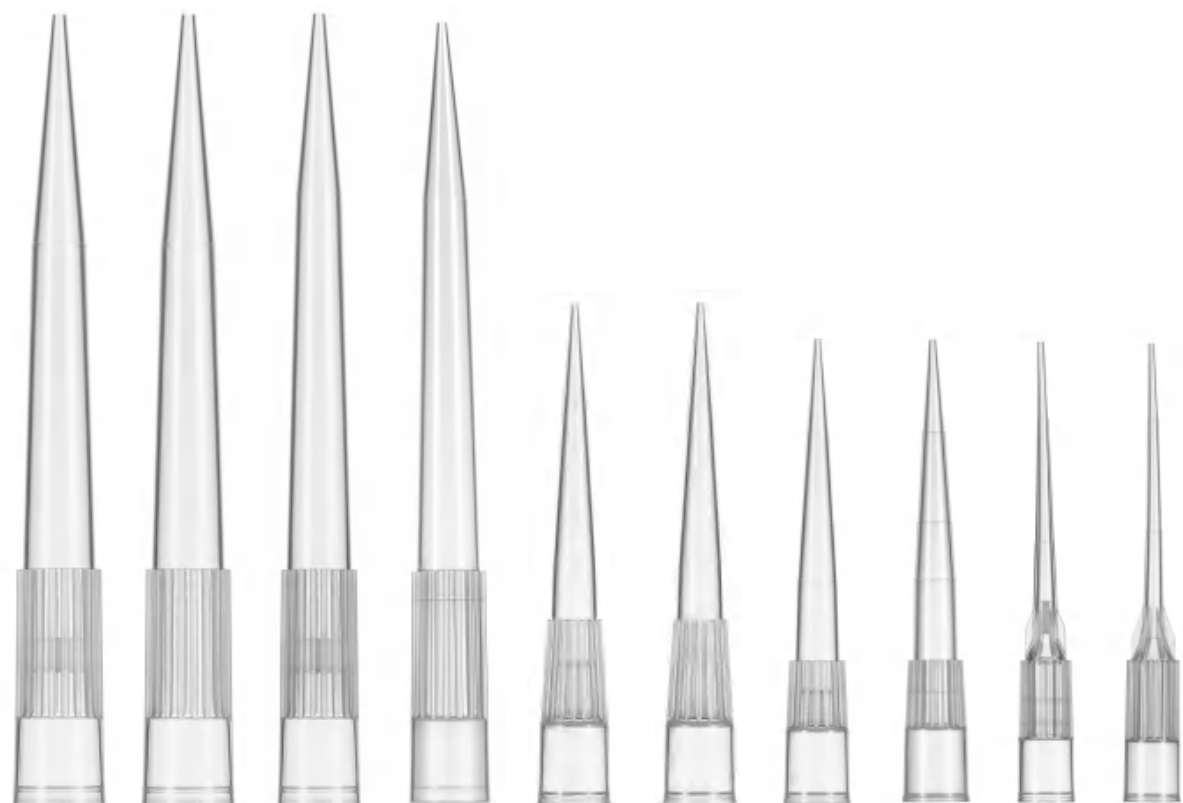


## CHAPTER 5

# 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
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
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
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
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



# CHAPTER 6 Pipette Tips (5~10ml)

- High Accuracy & Best Sealing: Pipettor Tips due to the exquisite workmanship, there's no air leakage or suck-back.
- 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.
- Widely 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 7

# Robotic Pipette

# Tips

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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

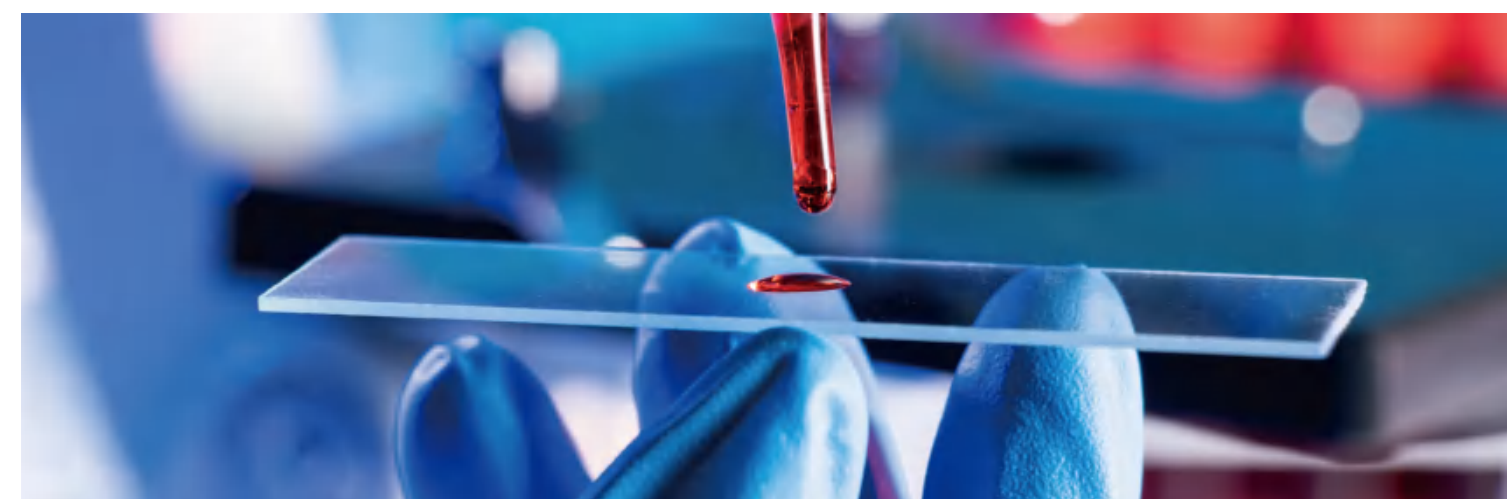
Robotic Tip Agilent®

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



## CHAPTER 8

# PCR Consumables

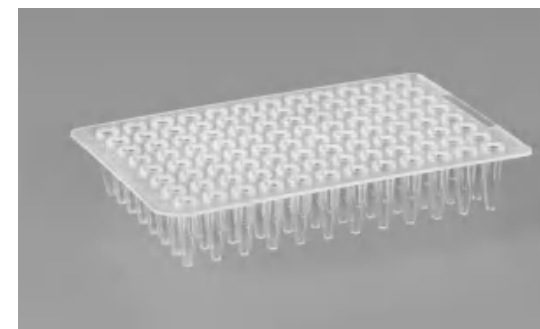
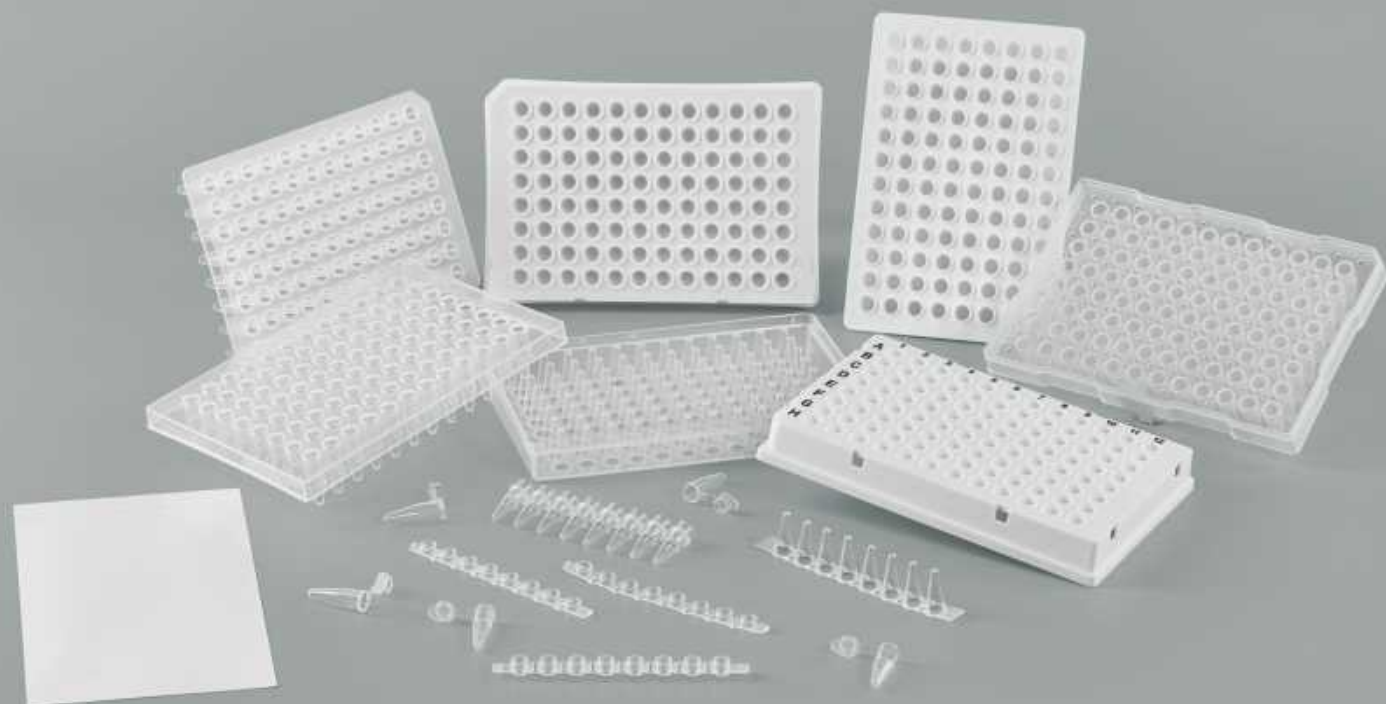
Our tube design and thickness offers the perfect seal, since the seal between the tube opening and the tube cap is critical in minimizing evaporation or sample leakage. Loose caps allow evaporation; overly tight caps cause spillage upon opening. All PCR tubes are non-sterile, certified RNase and DNase free.

Available in a wide variety of styles from individual tubes, to strips and plates.

Most of PCR plates have both clear and white type

Numeric markings on our strip of tubes

Alphanumeric markings on plates



### Non-skirt, qPCR plates, unskirted

Part NO.	Option	Color	Pack
PCRP-20NS	0.2ml 96-well	clear	10/box, 10boxes/case
PCRP-10NS	0.1ml 96-well	clear	10/box, 10boxes/case
PCRP-20NS-W	0.2ml 96-well	white	10/box, 10boxes/case
PCRP-10NS-W	0.1ml 96-well	white	10/box, 10boxes/case



### Half skirt, fit ABI, qPCR plates

Part NO.	Option	Color	Pack
PCRP-20HS	0.2ml 96-well	clear	10/box, 10boxes/case
PCRP-20HS-W	0.2ml 96-well	white	10/box, 10boxes/case



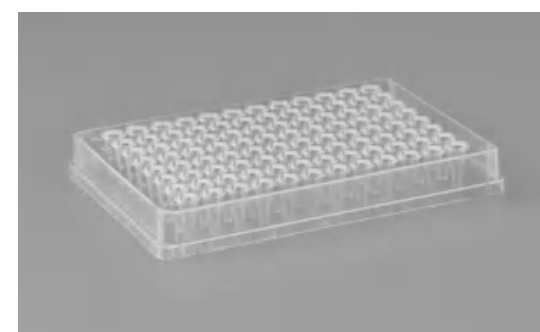
### Half skirt, fit Biorad/Roche, qPCR plates

Part NO.	Option	Color	Pack
PCRP-10HSR	0.1ml 96-well	clear	10/box, 10boxes/case
PCRP-10HSR-W	0.1ml 96-well	white	10/box, 10boxes/case



### Sub semi-skirt or High-skirt, fit ABI, qPCR plates

Part NO.	Option	Color	Pack
PCRP-20IS	0.2ml 96-well	clear	10/box, 10boxes/case
PCRP-10IS	0.1ml 96-well	clear	10/box, 10boxes/case



### Full-skirt, qPCR plates

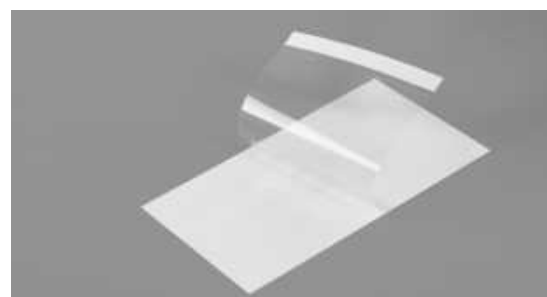
Part NO.	Option	Color	Pack
PCRP-10FS	0.1ml 96-well	clear	10/box, 10boxes/case
PCRP-20FSR-W	0.2ml 96-well	white base, white wells	10/box, 10boxes/case
PCRP-20FSR	0.2ml 96-well	white base, clear wells	10/box, 10boxes/case





**40ul 384-Well PCR Plate**

Part NO.	Color	Pack
PCRP-40FS-384C	white base, clear wells	10/box, 10boxes/case
PCRP-40FS-384C-W	white base, white wells	10/box, 10boxes/case



**PCR sealing film (works for all kinds of plates), individual pack**

Part NO.	Option	Color	Pack
PCRF-CP	Advanced sealing film for qPCR	clear	100/unit



**0.2ml 8-Strip PCR Tubes, with Clear Cap (qPCR)**

Part NO.	Color	Pack
PCRS-20F	clear tubes	125/unit, 10units/case
PCRS-20F-W	white tubes	125/unit, 10units/case



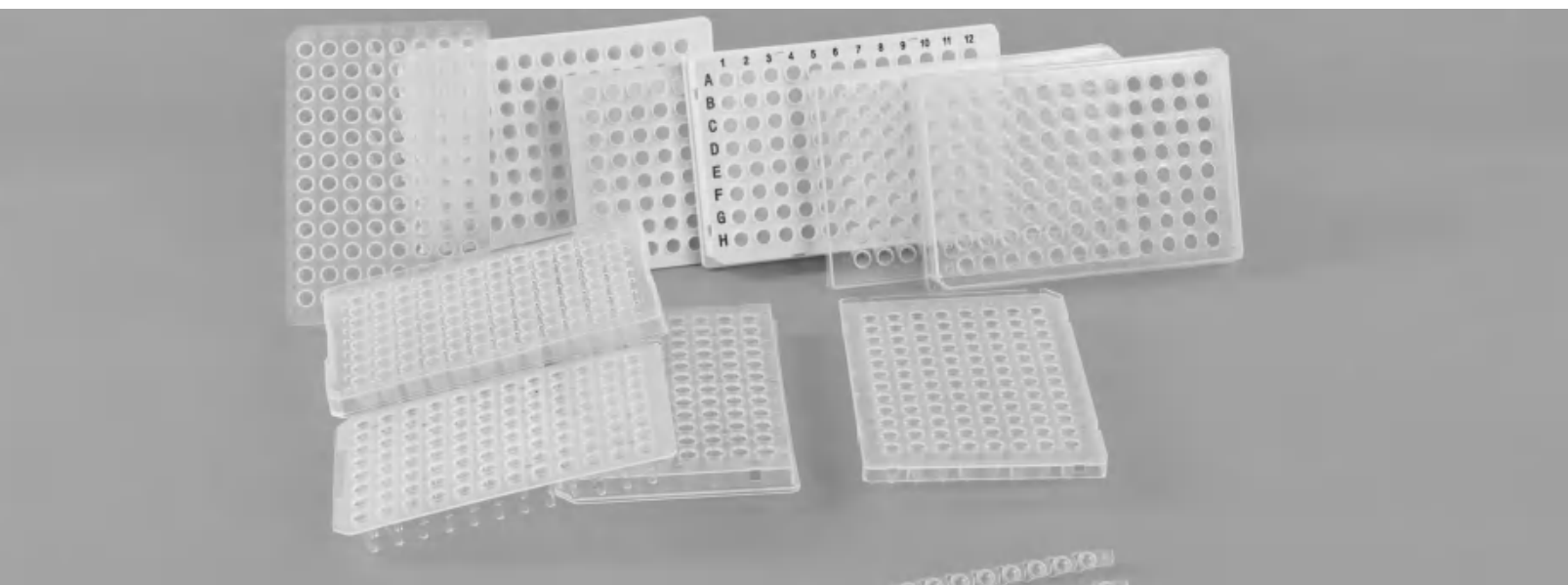
**0.1ml 8-Strip PCR Tubes, with Clear Cap (qPCR)**

Part NO.	Color	Pack
PCRS-10F	clear tubes	125/unit, 10units/case
PCRS-10F-W	white tubes	125/unit, 10units/case



**0.2ml PCR Tubes with Attached Flat Caps**

Part NO.	Color	Pack
PCRT-20F	clear tubes	1,000/unit, 10units/case



**SAFER LAB,  
LIGHTER,  
EASIER TO HANDLE.**



# PAKGENT® COMPATIBILITY LIST

**SAFER LAB,  
LIGHTER,  
EASIER TO HANDLE.**



## CHAPTER 9

# Centrifuge Tubes

All of our sterile centrifuge tubes are manufactured out of the highest grade resins and are certified to be RNase, DNase, DNA, pyrogen, and ATP free.

Polypropylene tubes are autoclavable to 120°C at 15 P.S.I. for 15 minutes, and are freezable to -80°C.

- 16,000g centrifuge force for 50mL & 15mL
- 25,000g centrifuge force for micro centrifuge tube
- Leak-proof seals
- Racked & Bulk pack available
- Sterile is an option



## 50mL Centrifuge Tube, PP, conical bottom, screw cap, 16000g



Part No.	Volume	Package Type	Pack
CT50B	50mL	bulk pack	25/bag, 20bags/case
CT50R	50mL	rack pack	25/rack, 20racks/case

## 15mL Centrifuge Tube, PP, conical bottom, screw cap, 16000g



Part No.	Volume	Package Type	Pack
CT15B	15ml	bulk pack	25/bag, 20bags/case
CT15R	15ml	rack pack	50/rack, 10racks/case

## Micro Centrifuge Tube, clear, graduated, 25000g



Part No.	Volume	Package Type	Pack
MCT50	5.0ml	bulk pack	200/bag, 10bags/case
MCT20	2.0ml	bulk pack	500/bag, 10bags/case
MCT15	1.5ml	bulk pack	500/bag, 10bags/case
MCT05	0.5ml	bulk pack	1000/bag, 10bags/case

## 50mL Centrifuge Tube, PP, conical bottom with skirt, self-standing, screw cap, 16000g



Part No.	Volume	Package Type	Pack
CT50BS	50ml	bulk pack	50/bag, 10bags/case

# CHAPTER 10 Screw Cap Tubes

- Self-standing bottom, O-ring is optional, Colorful caps available
- Recommend to use only in vapor-phased liquid nitrogen
- DNase RNase free, Pyrogen free
- Preassembled cap with tube is optional, sterile is optional.



## 0.5ml screw cap tube, self standing, with O-ring



Part NO.	Color	Pack
STSS-509CN	clear cap	500/bag, 10bags/case
STSS-509CR	red cap	500/bag, 10bags/case
STSS-509CB	blue cap	500/bag, 10bags/case
STSS-509CP	purple cap	500/bag, 10bags/case
STSS-509CY	yellow cap	500/bag, 10bags/case
STSS-509CG	green cap	500/bag, 10bags/case
STSS-509AM	amber tube and cap	500/bag, 10bags/case

## 1.5ml screw cap tube, self standing, with O-ring



Part NO.	Color	Pack
STSS-510CN	clear cap	500/bag, 10bags/case
STSS-510CR	red cap	500/bag, 10bags/case
STSS-510CB	blue cap	500/bag, 10bags/case
STSS-510CP	purple cap	500/bag, 10bags/case
STSS-510CY	yellow cap	500/bag, 10bags/case
STSS-510CG	green cap	500/bag, 10bags/case
STSS-510AM	amber tube and cap	500/bag, 10bags/case

## 2.0ml screw cap tube, self standing, with O-ring



Part NO.	Color	Pack
STSS-511CN	clear cap	500/bag, 10bags/case
STSS-511CR	red cap	500/bag, 10bags/case
STSS-511CB	blue cap	500/bag, 10bags/case
STSS-511CP	purple cap	500/bag, 10bags/case
STSS-511CY	yellow cap	500/bag, 10bags/case
STSS-511CG	green cap	500/bag, 10bags/case
STSS-511AM	amber tube and cap	500/bag, 10bags/case

## self standing, with O-ring, clear, sterile

Part NO.	Volume	Pack
STSS-509CNS	0.5mL	500/bag, 10bags/case
STSS-510CNS	1.5mL	500/bag, 10bags/case
STSS-511CNS	2.0mL	500/bag, 10bags/case



## Cryogenic Vials, Self-Standing, stable from -196°C to 121°C

Part NO.	Volume	Thread Type	Color	Pack
STSS-512IN	2.0ml	Internal	clear	50/bag, 20bags/case
STSS-512EX	2.0ml	External	clear	50/bag, 20bags/case
STSS-513EX	5.0ml	External	clear	50/bag, 20bags/case



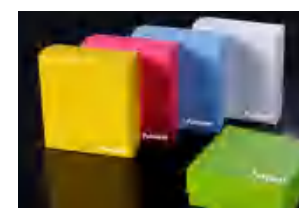
## PC Cryogenic Boxes, individual pack, stable from -196°C to 121°C

Part NO.	Height	Wells	Dimensions (mm)	Pack
STSS-BOX5213	2in	81-Well	133*133*53mm	30/case
STSS-BOX5214	3.75in	81-Well	133*133*95mm	30/case
STSS-BOX5210	2in	100-Well	133*133*53mm	30/case



## PP Cryogenic Boxes, stable from -90°C to 121°C

Part NO.	Height	Wells	Dimensions (mm)	Pack
STSS-BOX5212	2in	81-Well	133*133*53mm	30/case
STSS-BOX5218	2in	100-Well	133*133*53mm	30/case



## Cardboard Cryogenic Boxes, stable from -196°C to 121°C

Part NO.	Height	Wells	Dimensions (mm)	Pack
STSS-BOX5211	2in	81-Well	133*133*53mm	30/case

## CHAPTER 11

# Cell Culture Elisa Plate

PakGent Bioscience supply culture flask with ergonomically designed for easy handle while achieving least contamination during cell culture operation.

Cell culture plates are widely used for handling multiple samples, and Culture Dishes are produced with high quality polymers for microscopy.

- Wide & short neck with angled design for easier access
- Alphanumeric identification
- Compliant with USP and ANSI guideline



Cell Culture Flask with Plug Cap, PS, TC treated, Sterile to SAL10-6

Part No.	Volume	Pack
CL-F025P	25cm <sup>2</sup>	12/pack, 25packs/case
CL-F075P	75cm <sup>2</sup>	5/pack, 18packs/case
CL-F175P	175cm <sup>2</sup>	5/pack, 10packs/case



Cell Culture Plate, PS, 85.4x127.6mm, Flat Bottom, TC treated, Sterile

Part No.	Well	Pack
CL-P006	6well	Individual pack, 50/case
CL-P012	12well	Individual pack, 50/case
CL-P024	24well	Individual pack, 50/case
CL-P048	48well	Individual pack, 50/case
CL-P096	96well	Individual pack, 50/case



Cell Culture Dish, PS, TC treated, Sterile

Part No.	Diam	Pack
CL-D035	35mm	20/pack, 25packs/case
CL-D060	60mm	20/pack, 25packs/case
CL-D100	100mm	10/pack, 30packs/case



Petri Dish, PS, Sterile

Part No.	Diam	Pack
PD90	90mm	20/pack, 25packs/case
PD60	60mm	20/pack, 50packs/case
PD35	35mm	10/pack, 230packs/case

# CHAPTER 12

# Package Bottles

PakGent packaging Bottles are ideal for specialty chemicals, diagnostics, biologicals, reagents, adhesives and veterinary pharmaceuticals.  
HDPE packaging bottles are excellent for storage, shipping and packaging of liquid reagents.

- Lab Quality Wide-Mouth and Narrow-Mouth Bottles
- Linerless caps provide the ultimate in leakproof protection
- Ideal for storing, shipping and packaging liquids
- HDPE/LDPE/PP bottles available

DIANOSTIC BOTTLE available with 8ml and 15ml

PACKAGING BOTTLE available with 30ml/60ml/125ml/250ml/500ml/1000mL

Natural and amber are available

Leakage test: vacuum, 95KPA 30mins



### Wide mouth, natural

Part No.	Volume	Pack
WMPB008	8ml	2000/case
WMPB015	15ml	1500/case
WMPB030	30ml	800/case
WMPB060	60ml	800/case
WMPB125	125ml	500/case
WMPB250	250ml	250/case
WMPB500	500ml	125/case
WMPB1000	1000ml	50/case



### Wide mouth, amber

Part No.	Volume	Pack
WMPB008A	8ml	2000/case
WMPB015A	15ml	1500/case
WMPB030A	30ml	800/case
WMPB060A	60ml	800/case
WMPB125A	125ml	500/case
WMPB250A	250ml	250/case
WMPB500A	500ml	125/case
WMPB1000A	1000ml	50/case



### Narrow mouth, natural

Part No.	Volume	Pack
NMPB008	8ml	2000/case
NMPB015	15ml	1500/case
NMPB030	30ml	800/case
NMPB060	60ml	800/case
NMPB125	125ml	500/case
NMPB250	250ml	250/case
NMPB500	500ml	125/case
NMPB1000	1000ml	50/case



### Narrow mouth, amber

Part No.	Volume	Pack
WMPB008A	8ml	2000/case
WMPB015A	15ml	1500/case
NMPB030A	30ml	800/case
NMPB060A	60ml	800/case
NMPB125A	125ml	500/case
NMPB250A	250ml	250/case
NMPB500A	500ml	125/case
NMPB1000A	1000ml	50/case

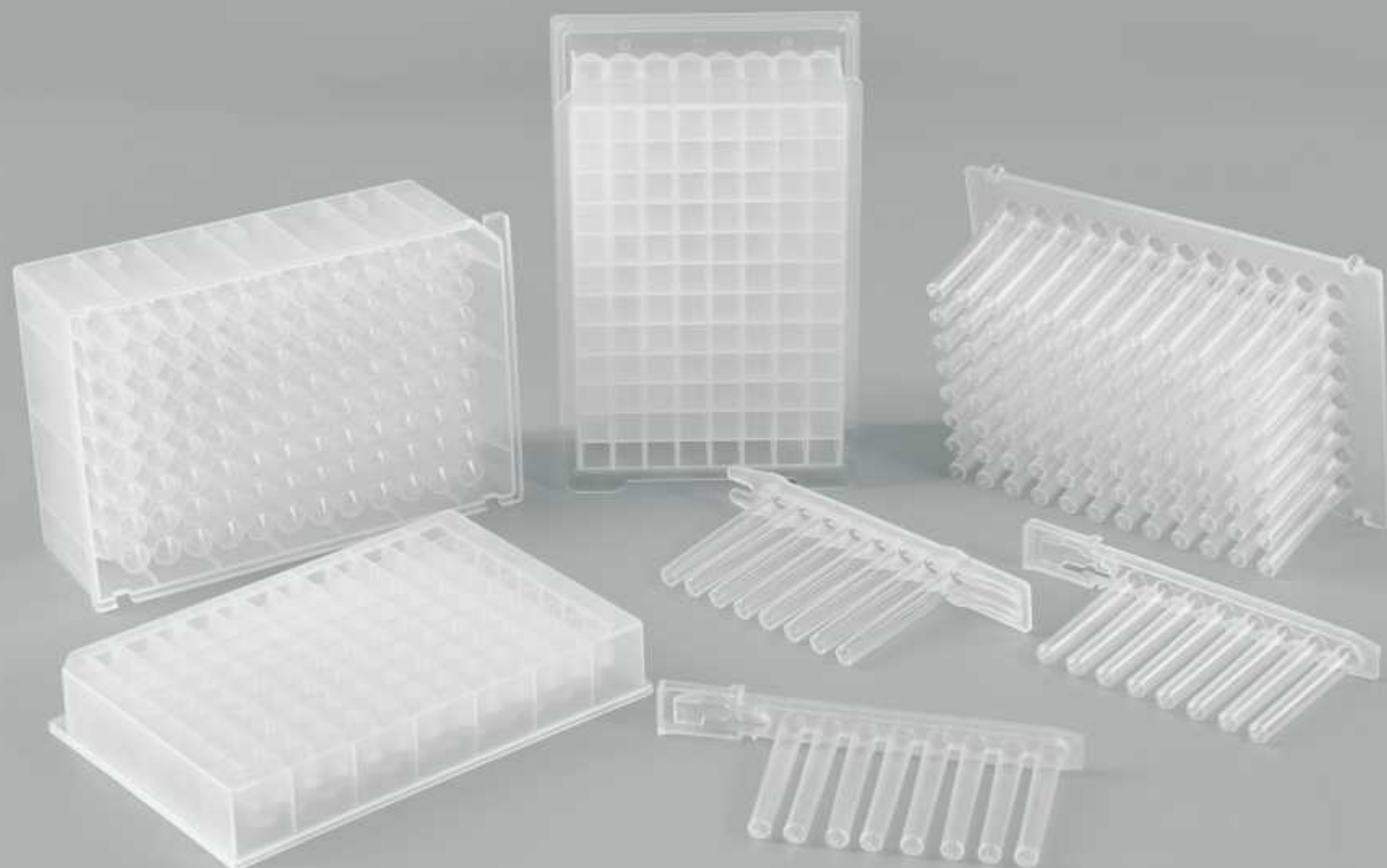


CHAPTER **13**

# Deep Well Plate

PakGent Bioscience manufactures all deep well plates and tip combo with medical grade polypropylene PP material, high chemical stability, sterile is an option.

8-strip tip combo has independent cap which is connected to achieve consistency. High transparency and thin wall design gives high thermal conductivity thus to achieve the target temperature with efficiency.



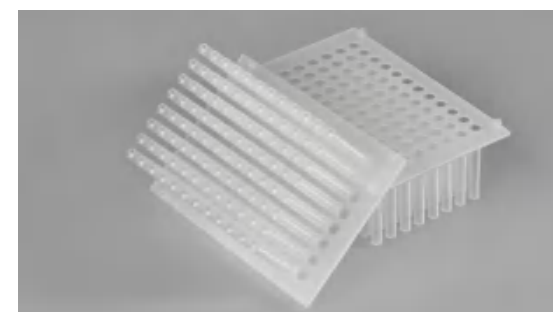
2.2ml deep 96 well plate

Part No.	Bottom	Pack
DWPR20U	round well U bottom	10/bag, 10bags/case
DWPR20V	round well V bottom	10/bag, 10bags/case



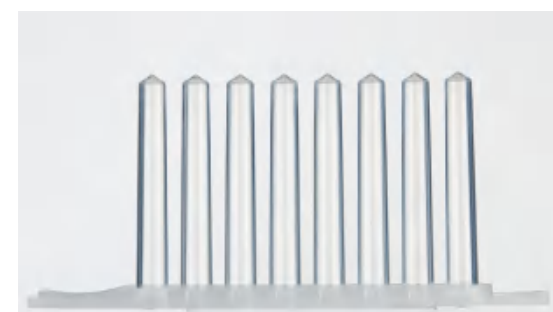
0.9ml 96 well plate

Part No.	Bottom	Pack
DWPS09V	square well V bottom	10/bag, 10bags/case



96 Well Plate Combo

Part No.	Pack
DWPC96	10/bag, 10bags/case



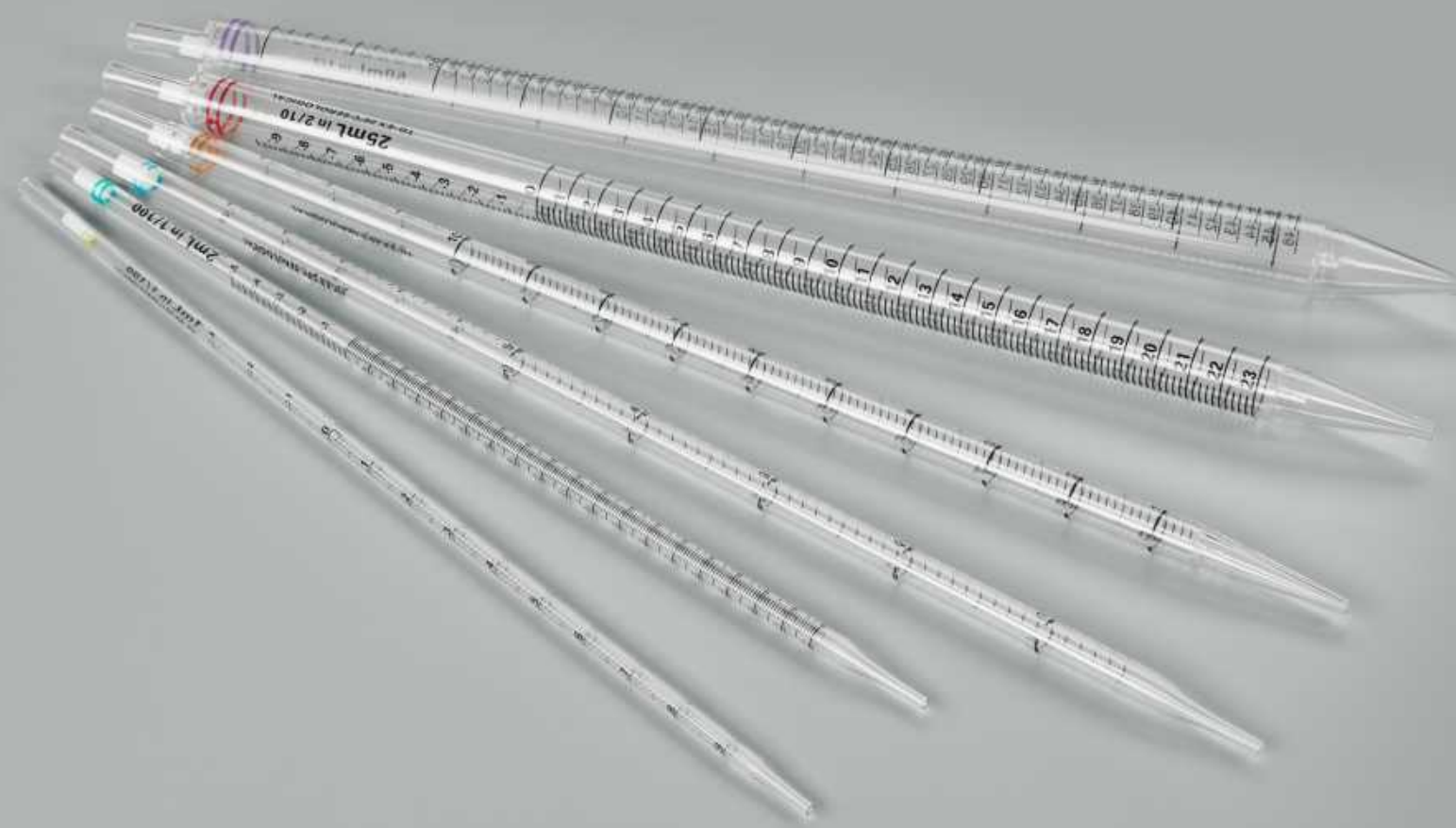
8 strip tip Combo

Part No.	Bottom	Cap	Pack
DWPC8V	V bottom	-	2/bag, 10bags/box, 10boxes/case
DWPC8VC	V bottom	with snap cap	2/bag, 10bags/box, 10boxes/case
DWPC8RC	U bottom	with snap cap	2/bag, 10bags/box, 10boxes/case

# CHAPTER 14 Serological Pipette

PakGent Bioscience offers serological pipette in six different volumes, available in individual pack and bulk pack, with general color code for each volume.

All of our serological pipettes are manufactured out of the highest grade resins and are certified to be RNase, DNase, DNA, pyrogen, and ATP free."



## 1ml Serological Pipette, PS, Sterile



Part No.	Package Type	Pack
SPTS01	Individual pack	50/bag, 20bags/case
SPTB01	bulk pack	50/bag, 20bags/case

## 2ml Serological Pipette, PS, Sterile



Part No.	Package Type	Pack
SPTS02	Individual pack	50/bag, 20bags/case
SPTB02	bulk pack	50/bag, 20bags/case

## 5ml Serological Pipette, PS, Sterile



Part No.	Package Type	Pack
SPTS05	Individual pack	50/bag, 10bags/case
SPTB05	bulk pack	50/bag, 10bags/case

## 10ml Serological Pipette, PS, Sterile



Part No.	Pcs	Package Type	Pack
SPTS10	one pcs	Individual pack	50/bag, 10bags/case
SPTB10	one pcs	bulk pack	50/bag, 10bags/case
SPTS10A	two pcs	Individual pack	50/bag, 10bags/case
SPTB10A	two pcs	bulk pack	50/bag, 10bags/case

## 25ml Serological Pipette, PS, Sterile



Part No.	Package Type	Pack
SPTS25	Individual pack	25/bag, 10bags/case
SPTB25	bulk pack	25/bag, 10bags/case

## 50ml Serological Pipette, PS, Sterile



Part No.	Package Type	Pack
SPTS50	Individual pack	25/bag, 8bags/case
SPTB50	bulk pack	25/bag, 8bags/case

### Product Certification Protocols

We hereby certify that our products are free from the contaminants listed below. All of our racked product is assembled under 100,000 class clean room conditions, with third party certification for it. And human hands have never touched our tips/tubes without gloves until the products reach your hands, further ensuring that the products you receive are free from the certified contaminants.

#### Typical Testing Protocols for Sterile Products Used In Product Certification

##### Dnase and RNase Detection

##### Pyrogen Detection

Sensitivity is 0.05 EU/ml.

##### Bioburden

##### PCR\* Inhibition

##### Product Sterilization

Those products designated as pre-sterilized are irradiated by Gamma or Electron Beam.

#### Typical Test Protocols for Non-sterile Products Used In Product Certification

##### Dnase and RNase Detection

##### Pyrogen Detection

Sensitivity is 0.06 EU/ml.

PP	Polyethylene	-
PS	polystyrene	-
HDPE	Polyethylene	High Density
LDPE	Polyethylene	Low Density

### Technical Information

Here are some technical information based on their physical and chemical characters, are merely recommendation, should be considered as general guideline only. No guarantees of performance, as many factors can affect the chemical resistance and performance of various resins.

Users should be guided by their own tests under conditions equivalent to or representative of those to which a particular product would be subjected.

Physical Properties of Resin (Reference Only)								
Resin	Transparency	Sterilization Method			Max Use Temp.°C	Brittleness Temp.°C	Metal Content 4	Recycle Code
		Autoclavable 1	Radiation 2	Chemical 3				
PP	Translucent	Yes	Yes	Yes	140	0	None	5
PS	Transparent	No	Yes	No	90	20	None	6
HDPE	Translucent	No	Yes	Yes	120	-100	None	2
LDPE	Translucent	No	Yes	Yes	80	-100	None	4

### Recommended Autoclave Procedure

120°C for 15 minutes at 15 P.S.I.

### Radiation Sterilization

Gamma/Electron Beam Irradiation.

### Chemical Disinfectants

Generally the four resins listed above can be subjected to the most commonly used disinfectants.

Note : Chemically aggressive disinfectants used for a prolonged period may cause surface degradation with polystyrene such as crazing.

### Metal Content

All Materials used in the manufacture of our products are free of trace metals.

### Technical Information

Chemical Resistance Summary (Reference Only)				
Substance Temp	Resin			
	PP	PS	HDPE	LDPE
20°C (68°F)	PP	PS	HDPE	LDPE
Acids (Organic)	A	A	A	A
Acids (Inorganic)	A	C	A	A
Alcohols	A	A	A	A
Aldehydes	B	D	B	B
Bases	A	A	A	A
Esters	B	D	B	B
Hydrocarbons (aliphatic)	B	D	B	C
Hydrocarbons (aromatic)	C	D	B	C
Hydrocarbons (halogenated)	C	D	C	D
Ketones	B	D	B	B
Phenol (crystals)	B	D	B	B
Phenol (liquid)	D	C	D	D

Classifications  
 A - No damage after 30 days of constant exposure  
 B - Little to no damage after 30 days of constant exposure  
 C - Some effect after 7 days of constant exposure  
 D - Not recommended for continuous use