

*RESEARCH GRADE*

# LIQUID HANDLING PRODUCTS

## PIPETTE CATALOG



**Sorenson™**  
BioScience, Inc.

## MultiGuard™ Barrier Tips



- Ideal for PCR, DNA amplification and radioisotope handling
- Inert, hydrophobic barrier prevents pipettor contamination
- Over-pipetting will not contaminate valuable samples
- Universal fit on research-grade pipettors
- Filter contains no leachable additives
- Small micron pore sizes, <20 microns

MultiGuard Barrier Tips effectively block aerosols without the risk of contaminating your sample with additives.

Visit [www.sorbio.com](http://www.sorbio.com) to view studies where MultiGuard Barrier Tips prevent anthrax and radioactive contamination.

Also see how a cellulose additive contained in competitors' tips inhibits PCR.

### LOW BINDING POLYMER TECHNOLOGY

- Creates hydrophobic surface to reduce surface tension
- Minimal sample binding
- Improves accuracy and precision
- No additives such as silicone
- No leaching and subsequent sample degradation

### SEE THE DIFFERENCE!

Conventional low retention tips bind the sample



Low-binding tips dispense the entire sample



### Scientific tests demonstrate that low binding polymer technology binds less DNA and protein than conventional and low retention tips.

**DNA Binding:** The relative binding of DNA by several manufacturers' pipette tips (three conventional tips and three low retention tips) was measured by slowly pipetting 100 µl of ABI Big Dye® Terminator Ready Reaction Mix (Applied Biosystems). Tips were subsequently washed in 625 µl of ddH<sub>2</sub>O in a spectrophotometer sample tube and analyzed with a DU-70 spectrophotometer (Beckman-Coulter) at 260 nm wavelength.























**Results:** Low binding tips experience as much as a tenfold decrease in DNA binding compared to conventional tips and a fourfold decrease in bound DNA compared to the best low retention tips. Performance is not compromised after autoclaving (data not shown).

**Protein Binding:** The relative binding of protein by several manufacturers' pipette tips (three conventional tips and three low retention tips) was measured by pipetting 100 µl of 10 mg/µl bovine serum albumin (New England Biolabs, Beverly, MA). Tips were subsequently washed in 625 µl of ddH<sub>2</sub>O in a spectrophotometer sample tube and analyzed with a DU-70 spectrophotometer (Beckman-Coulter) at 280 nm wavelength.

**Results:** Low binding tips exhibit as much as a threefold decrease in protein binding compared to conventional and low retention tips and performance is not compromised after autoclaving (data not shown).



## MultiGuard™ Barrier Tips

	Cat. No.	Vol. Range	Type	Graduations	Packaging	Pack Type	Quantity
<b>10 µl ultra G</b>						Cell Rack	
	28200 28200T	0.1-10 µl 0.1-10 µl	Standard Low Binding	2, 10 µl 2, 10 µl	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>10 µl LongReach</b>						Cell Rack	
	38000 38000T	0.1-10 µl 0.1-10 µl	Standard Low Binding	2, 5, 10 µl 2, 5, 10 µl	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>10 µl E</b>						Cell Rack	
	15020 15020T	0.5-10 µl 0.5-10 µl	Standard Low Binding	No Graduations No Graduations	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>20 µl</b>						Cell Rack	
	14210 14210T	1-20 µl 1-20 µl	Standard Low Binding	No Graduations No Graduations	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>100 µl</b>						Cell Rack	
	36060 36060T	1-100 µl 1-100 µl	Standard Low Binding	No Graduations No Graduations	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>200 µl</b>						Cell Rack	
	14220 14220T	1-200 µl 1-200 µl	Standard Low Binding	No Graduations No Graduations	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>200 µl NX</b>						Cell Rack	
	30550 30550T	1-200 µl 1-200 µl	Standard Low Binding	10, 50, 100 µl 10, 50, 100 µl	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>200 µl MultiGuard 3*</b>						Cell Rack	
	17370-X 17370T-X	1-200 µl 1-200 µl	Standard Low Binding	10, 50, 100, 200 µl 10, 50, 100, 200 µl	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
* This unique extended length tip allows standardization across a wide range of 20 µl, 50 µl, 100 µl and 200 µl pipettors.							
<b>300 µl XT</b>						Cell Rack	
	30510-X 30510T-X	1-300 µl 1-300 µl	Standard Low Binding	10, 50, 100, 200 µl 10, 50, 100, 200 µl	Sterile, 96 Tips/Rack Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>1000 µl</b>						Standard Rack	
	14200 14200T	100-1000 µl 100-1000 µl	Standard Low Binding	No Graduations No Graduations	Sterile, 100 Tips/Rack Sterile, 100 Tips/Rack		10 Racks/Pack, 5 Packs/Case 10 Racks/Pack, 5 Packs/Case
<b>1000 µl XT</b>						Hinged Rack	
	34000	50-1250 µl	Standard	200, 500, 1000 µl	Sterile, 96 Tips/Rack		8 Racks/Pack, 5 Packs/Case



Australian distributors:  
Fisher Biotec Australia  
free call: 1800 066 077  
email: [info@fisherbiotec.com](mailto:info@fisherbiotec.com)  
web: [www.fisherbiotec.com](http://www.fisherbiotec.com)

## OneTouch Tips

A truly universal tip that fits virtually any pipettor – OneTouch tips provide an innovative, ergonomic and environmentally friendly liquid handling solution.



### Innovative – Pipetting like you've never felt it

A revolutionary tip that is manufactured from two resins, OneTouch tips provide a soft color-coded top collar and a rigid, ultra-clear polypropylene body.














### Ergonomic – Soft tip requires less pressure to create an optimal seal

Tips reduce the necessary sealing and reciprocal ejection force felt with traditional single resin polypropylene tips. Tips are excellent for multichannel pipettors, and reduce pipettor wear.

### Packaging and Compatibility

- Packaging:
  - Traditional polypropylene racks
- Three tips accommodate a wide range of research-grade pipettors:
  - 10  $\mu$ l (1-20  $\mu$ l), compatible with most popular 2  $\mu$ l, 10  $\mu$ l and 20  $\mu$ l research-grade pipettors
  - 200  $\mu$ l (1-330  $\mu$ l), compatible with most popular 200-300  $\mu$ l research-grade pipettors
  - 1000  $\mu$ l (50-1250  $\mu$ l), compatible with most popular 1000  $\mu$ l research-grade pipettors



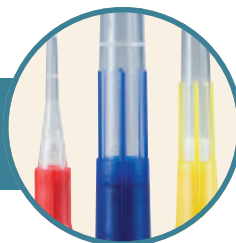
	Cat. No.	Vol. Range	Type	Graduations	Packaging	Pack Type	Quantity
<b>**NEW**</b>							
<b>3 µl</b>	78510	0.1-3 µl	Barrier		Sterile	Cell Rack	10 Racks/Pack, 5 Packs/Case
<b>10 µl Standard</b>							
	10300	1-20 µl	Standard	1 µl, 5 µl, 10 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10310	1-20 µl	Standard	1 µl, 5 µl, 10 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
<b>10 µl Barrier</b>							
	10320	1-20 µl	Barrier	1 µl, 5 µl, 10 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
<b>200 µl Standard</b>							
	10330	1-330 µl	Standard	10 µl, 50 µl, 100 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10340	1-330 µl	Standard	10 µl, 50 µl, 100 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
<b>200 µl Barrier</b>							
	10350	1-330 µl	Barrier	10 µl, 50 µl, 100 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
<b>1000 µl Standard</b>							
	10360	50-1250 µl	Standard	200 µl, 500 µl, 1000 µl	Non-Sterile, 96 Tips/Rack		8 Racks/Pack, 5 Packs/Case
	10370	50-1250 µl	Standard	200 µl, 500 µl, 1000 µl	Sterile, 96 Tips/Rack		8 Racks/Pack, 5 Packs/Case
<b>1000 µl Barrier</b>							
	10380	50-1250 µl	Barrier	200 µl, 500 µl, 1000 µl	Sterile, 96 Tips/Rack		8 Racks/Pack, 5 Packs/Case

## Ultra-Micro and Standard Universal Fit Pipette Tips

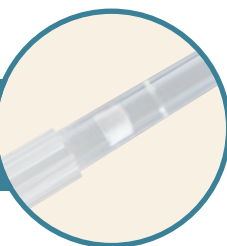
Trust Sorenson brand pipette tips in your research. Tips are manufactured from the finest raw materials using precise production techniques that provide consistent quality performance. Primary products are made from virgin polymers and contain no recycled, reprocessed, or altered plastics.

- Universal fit on research grade pipettors
- Accurate, precise and reliable
- Exceptional clarity
- Certified *free* of RNase, DNase, Human DNA and pyrogens
- Extended length tips enable users to reach the bottom of tubes without contaminating pipettors
- Graduated tips provide visible reference points
- Racked on 9 mm centers, pipette tips provide multichannel convenience

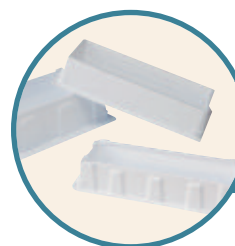
**OneTouch Tips:**  
See page 6.



**MultiGuard™ Barrier**  
Tips: See page 4.



**Reservoirs:**  
See page 38.



### LOW BINDING POLYMER TECHNOLOGY

- Creates hydrophobic surface to reduce surface tension
- Minimal sample binding
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**Protein Binding:** The relative binding of protein by several manufacturers' pipette tips (three conventional tips and three low retention tips) was measured by pipetting 100  $\mu$ l of 10 mg/ $\mu$ l bovine serum albumin (New England Biolabs, Beverly, MA). Tips were subsequently washed in 625  $\mu$ l of ddH<sub>2</sub>O in a spectrophotometer sample tube and analyzed with a DU-70 spectrophotometer (Beckman-Coulter) at 280 nm wavelength.

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## Ultra-Micro Tips

















	Cat. No.	Vol. Range	Type	Color	Graduations	Packaging	Pack Type	Quantity
10 µl ultra G								
	23580	0.1-10 µl	Standard	Natural	2, 10 µl	Non-Sterile, Bulk	<b>Bulk Pack</b> 	1000 Tips/Bag, 10 Bags/Case
	23580T	0.1-10 µl	Low Binding	Natural	2, 10 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	23560	0.1-10 µl	Standard	Natural	2, 10 µl	Non-Sterile, 96 Tips/Rack	<b>Cell Rack</b> 	10 Racks/Pack, 5 Packs/Case
	23560T	0.1-10 µl	Low Binding	Natural	2, 10 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	23570	0.1-10 µl	Standard	Natural	2, 10 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	23570T	0.1-10 µl	Low Binding	Natural	2, 10 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	30470	0.1-10 µl	Standard	Natural	2, 10 µl	Non-Sterile, Reload	<b>QuickRack</b> 	960 Tips/Pack, 5 Packs/Case
	30470T	0.1-10 µl	Low Binding	Natural	2, 10 µl	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case
	10 µl LongReach							
37650		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Non-Sterile, Bulk	<b>Bulk Pack</b> 	1000 Tips/Bag, 10 Bags/Case
37650T		0.1-10 µl	Low Binding	Natural	2, 5, 10 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
37640		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Non-Sterile, 96 Tips/Rack	<b>Cell Rack</b> 	10 Racks/Pack, 5 Packs/Case
37640T		0.1-10 µl	Low Binding	Natural	2, 5, 10 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
37660		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
37660T		0.1-10 µl	Low Binding	Natural	2, 5, 10 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
27780		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Non-Sterile	<b>TipStation</b> 	960 Tips/Stack, 5 Stacks/Case
27780T		0.1-10 µl	Low Binding	Natural	2, 5, 10 µl	Non-Sterile		960 Tips/Stack, 5 Stacks/Case
27790		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Sterile		960 Tips/Stack, 5 Stacks/Case
27790T		0.1-10 µl	Low Binding	Natural	2, 5, 10 µl	Sterile		960 Tips/Stack, 5 Stacks/Case
70500		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Non-Sterile, 96 Tips/Deck	<b>Platinum Reload</b> 	10 Decks/Pack, 4 Packs/Case
70600		0.1-10 µl	Low Binding	Natural	2, 5, 10 µl	Non-Sterile, 96 Tips/Deck		10 Decks/Pack, 4 Packs/Case
70700		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Non-Sterile, 96 Tips/Deck, Starter Kit		960 Tips/Case, 10 Empty Racks
37820		0.1-10 µl	Standard	Natural	2, 5, 10 µl	Non-Sterile, Reload	<b>QuickRack</b> 	960 Tips/Pack, 5 Packs/Case
37820T		0.1-10 µl	Low Binding	Natural	2, 5, 10 µl	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case
10 µl E								
	13980	0.5-10 µl	Standard	Natural	No Graduations	Non-Sterile, Bulk	<b>Bulk Pack</b> 	1000 Tips/Bag, 10 Bags/Case
	13980T	0.5-10 µl	Low Binding	Natural	No Graduations	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	22220	0.5-10 µl	Standard	Natural	No Graduations	Non-Sterile, 96 Tips/Rack	<b>Cell Rack</b> 	10 Racks/Pack, 5 Packs/Case
	22220T	0.5-10 µl	Low Binding	Natural	No Graduations	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	22210	0.5-10 µl	Standard	Natural	No Graduations	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	22210T	0.5-10 µl	Low Binding	Natural	No Graduations	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case

## Standard Tips

	Cat. No.	Vol. Range	Type	Color	Graduations	Packaging	Pack Type	Quantity
<b>200 µl</b>								
	10470	1-200 µl	Standard	Natural	No Graduations	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	10470T	1-200 µl	Low Binding	Natural	No Graduations	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	10500	1-200 µl	Standard	Natural	No Graduations	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	15270T	1-200 µl	Low Binding	Natural	No Graduations	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10520	1-200 µl	Standard	Natural	No Graduations	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10520T	1-200 µl	Low Binding	Natural	No Graduations	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	30450	1-200 µl	Standard	Natural	No Graduations	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case
	30450T	1-200 µl	Low Binding	Natural	No Graduations	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case
	10590	1-200 µl	Standard	Yellow	No Graduations	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	10620	1-200 µl	Standard	Yellow	No Graduations	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10660	1-200 µl	Standard	Yellow	No Graduations	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	30460	1-200 µl	Standard	Yellow	No Graduations	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case
<b>200 µl Standardization</b>								
	15720	1-200 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	15720T	1-200 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	15660	1-200 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	15660T	1-200 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	15670	1-200 µl	Standard	Natural	10, 50, 100 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	15670T	1-200 µl	Low Binding	Natural	10, 50, 100 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	27760	1-200 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile		960 Tips/Stack, 5 Stacks/Case
	27760T	1-200 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile		960 Tips/Stack, 5 Stacks/Case
	27770	1-200 µl	Standard	Natural	10, 50, 100 µl	Sterile		960 Tips/Stack, 5 Stacks/Case
	27770T	1-200 µl	Low Binding	Natural	10, 50, 100 µl	Sterile		960 Tips/Stack, 5 Stacks/Case
	70510	1-200 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck		10 Decks/Pack, 4 Packs/Case
	70610	1-200 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck		10 Decks/Pack, 4 Packs/Case
	70710	1-200 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck, Starter Kit		960 Tips/Case, 10 Empty Racks
	30430	1-200 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case
	30430T	1-200 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case
	15730	1-200 µl	Standard	Yellow	10, 50, 100 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	15360	1-200 µl	Standard	Yellow	10, 50, 100 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	15370	1-200 µl	Standard	Yellow	10, 50, 100 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	27720	1-200 µl	Standard	Yellow	10, 50, 100 µl	Non-Sterile		960 Tips/Stack, 5 Stacks/Case
	27730	1-200 µl	Standard	Yellow	10, 50, 100 µl	Sterile		960 Tips/Stack, 5 Stacks/Case
	70520	1-200 µl	Standard	Yellow	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck		10 Decks/Pack, 4 Packs/Case
	70720	1-200 µl	Standard	Yellow	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck, Starter Kit		960 Tips/Case, 10 Empty Racks
	30440	1-200 µl	Standard	Yellow	10, 50, 100 µl	Non-Sterile, Reload		960 Tips/Pack, 5 Packs/Case



## Standard Tips

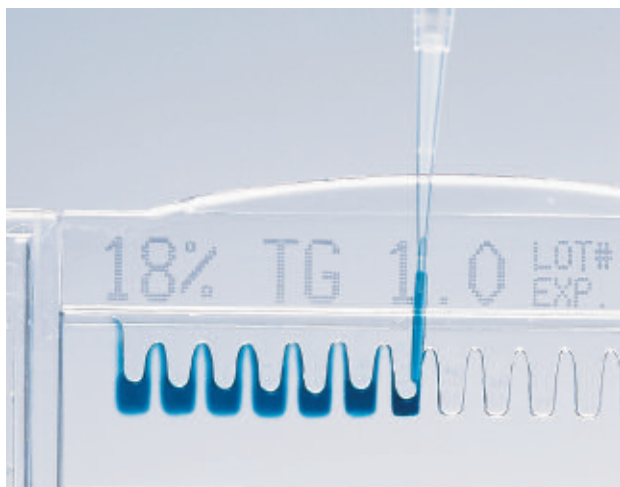
	Cat. No.	Vol. Range	Type	Color	Graduations	Packaging	Pack Type	Quantity
<b>300 µl NX</b>								
	31770	1-300 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	31770T	1-300 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	31780	1-300 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	31780T	1-300 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	31790	1-300 µl	Standard	Natural	10, 50, 100 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	31790T	1-300 µl	Low Binding	Natural	10, 50, 100 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	70530	1-300 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck		10 Decks/Pack, 4 Packs/Case
	70620	1-300 µl	Low Binding	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck		10 Decks/Pack, 4 Packs/Case
70730	1-300 µl	Standard	Natural	10, 50, 100 µl	Non-Sterile, 96 Tips/Deck, Starter Kit	960 Tips/Case, 10 Empty Racks		
<b>300 µl XT</b>								
	30800	1-300 µl	Standard	Natural	10, 50, 100, 200 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	30800T	1-300 µl	Low Binding	Natural	10, 50, 100, 200 µl	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	30920	1-300 µl	Standard	Natural	10, 50, 100, 200 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	30920T	1-300 µl	Low Binding	Natural	10, 50, 100, 200 µl	Non-Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	30930	1-300 µl	Standard	Natural	10, 50, 100, 200 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	30930T	1-300 µl	Low Binding	Natural	10, 50, 100, 200 µl	Sterile, 96 Tips/Rack		10 Racks/Pack, 5 Packs/Case
<b>1000 µl*</b>								
	10200	100-1000 µl	Standard	Natural	No Graduations	Non-Sterile, 100 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10200T	100-1000 µl	Low Binding	Natural	No Graduations	Non-Sterile, 100 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10230	100-1000 µl	Standard	Natural	No Graduations	Sterile, 100 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10230T	100-1000 µl	Low Binding	Natural	No Graduations	Sterile, 100 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10190	100-1000 µl	Standard	Natural	No Graduations	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	10190T	100-1000 µl	Low Binding	Natural	No Graduations	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	10040	100-1000 µl	Standard	Blue	No Graduations	Non-Sterile, Bulk		1000 Tips/Bag, 10 Bags/Case
	10080	100-1000 µl	Standard	Blue	No Graduations	Non-Sterile, 100 Tips/Rack		10 Racks/Pack, 5 Packs/Case
	10130	100-1000 µl	Standard	Blue	No Graduations	Sterile, 100 Tips/Rack		10 Racks/Pack, 5 Packs/Case
<b>1000 µl XT</b>								
	31610	50-1250 µl	Standard	Natural	200, 500, 1000 µl	Non-Sterile, Bulk		768 Tips/Bag, 10 Bags/Case
	34750	50-1250 µl	Standard	Natural	200, 500, 1000 µl	Non-Sterile, 96 Tips/Rack		8 Racks/Pack, 5 Packs/Case
	34760	50-1250 µl	Standard	Natural	200, 500, 1000 µl	Sterile, 96 Tips/Rack		8 Racks/Pack, 5 Packs/Case
	70540	50-1250 µl	Standard	Natural	200, 500, 1000 µl	Non-Sterile, 96 Tips/Deck		8 Decks/Pack, 4 Packs/Case
	70740	50-1250 µl	Standard	Natural	200, 500, 1000 µl	Non-Sterile, 96 Tips/Deck, Starter Kit		768 Tips/Case, 8 Empty Racks
	34770	50-1250 µl	Standard	Natural	200, 500, 1000 µl	Non-Sterile, Reload		768 Tips/Pack, 5 Packs/Case

\*1000 µl tip racks are not configured on 9 mm centers; 1000 µl XT tip racks ARE configured on 9 mm centers and accommodate multichannel pipetting.



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## Gel Loading Tips



Sorenson is *THE* trusted manufacturer of gel loading tips. Sorenson's MultiFlex™, MultiFlex E and MiniFlex gel loading tips have become the industry standard and have been used globally in genetic sequencing studies.

### MultiFlex Tips (1-200 µl):

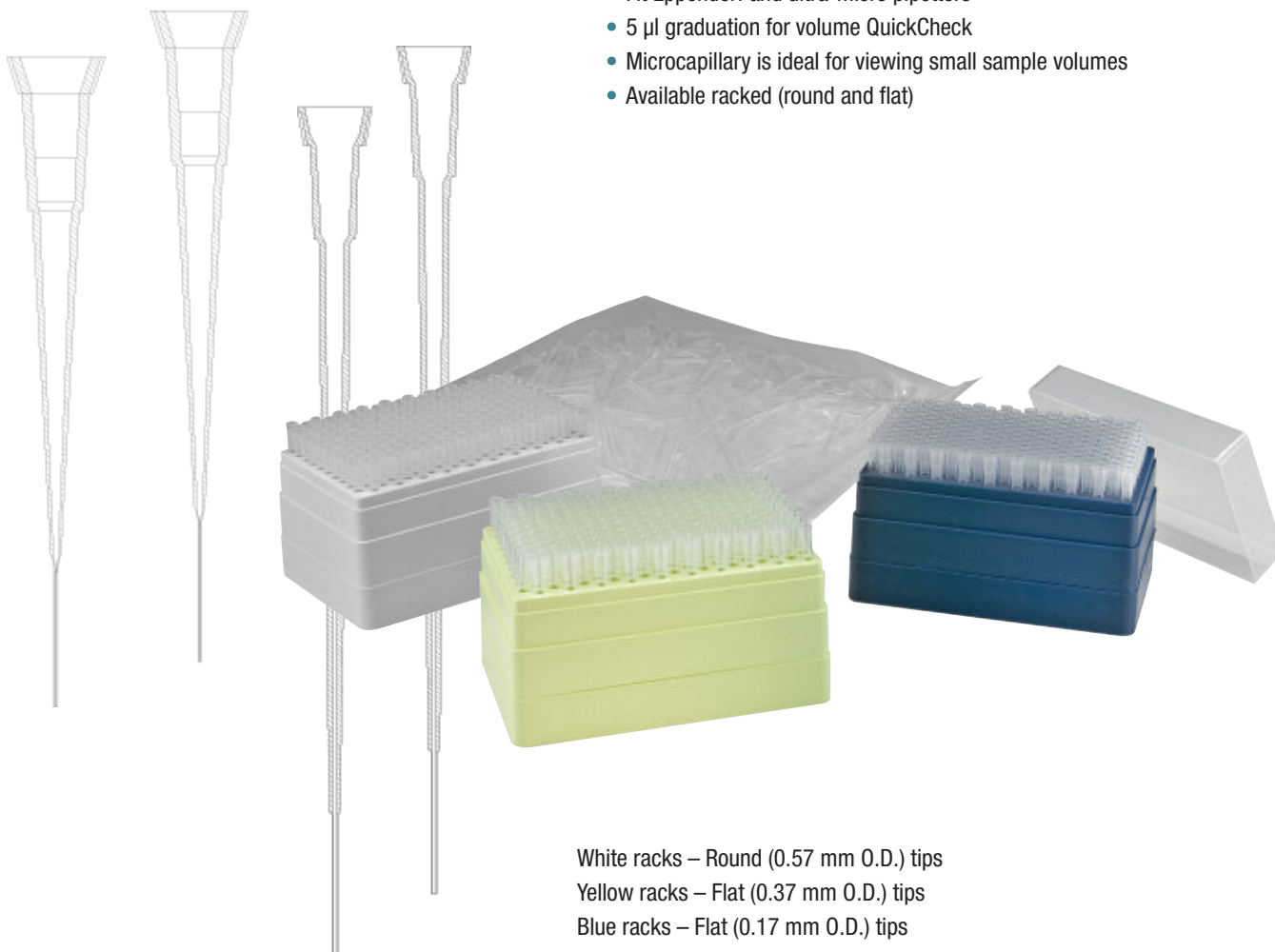
- Universal fit on research-grade pipettors
- 83 mm length for access to bottom of narrow vessels and gel wells
- 5 µl graduation for volume QuickCheck
- Available in bulk (round) and racked (round and flat)

### MiniFlex Tips (0.1-10 µl):

- Universal fit on ultra-micro pipettors
- 45 mm length for access to bottom of narrow vessels and gel wells.
- 2 µl graduation for volume QuickCheck
- Available racked (round and flat)

### MultiFlex E Tips (0.5-10 µl):

- Fit Eppendorf and ultra-micro pipettors
- 5 µl graduation for volume QuickCheck
- Microcapillary is ideal for viewing small sample volumes
- Available racked (round and flat)
















White racks – Round (0.57 mm O.D.) tips

Yellow racks – Flat (0.37 mm O.D.) tips

Blue racks – Flat (0.17 mm O.D.) tips



## Gel Loading Tips

	Cat. No.	Vol. Range	Orifice Shape	Orifice O.D.*	Graduations	Packaging	Pack Type**	Quantity
<b>10 µl MiniFlex</b> 	15100	0.1-10 µl	Round	0.57 mm	2 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	15110	0.1-10 µl	Round	0.57 mm	2 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
	15120	0.1-10 µl	Flat	0.37 mm	2 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	15130	0.1-10 µl	Flat	0.37 mm	2 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
	17350	0.1-10 µl	Flat	0.17 mm	2 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	17360	0.1-10 µl	Flat	0.17 mm	2 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
<b>10 µl MultiFlex E</b> 	13920	0.5-10 µl	Round	0.57 mm	5 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	13930	0.5-10 µl	Round	0.57 mm	5 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
	13890	0.5-10 µl	Flat	0.37 mm	5 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	13900	0.5-10 µl	Flat	0.37 mm	5 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
	17330	0.5-10 µl	Flat	0.17 mm	5 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	17340	0.5-10 µl	Flat	0.17 mm	5 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
<b>200 µl MultiFlex</b> 	28480	1-200 µl	Round	0.57 mm	5 µl	Bulk, Non-Sterile		1000 Tips/Bag, 10 Bags/Case
	13790	1-200 µl	Round	0.57 mm	5 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	13810	1-200 µl	Round	0.57 mm	5 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
	13760	1-200 µl	Flat	0.37 mm	5 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	13770	1-200 µl	Flat	0.37 mm	5 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case
	17310	1-200 µl	Flat	0.17 mm	5 µl	Racked, Non-Sterile		200 Tips/Pack, 4 Packs/Case
	17320	1-200 µl	Flat	0.17 mm	5 µl	Racked, Sterile		200 Tips/Pack, 4 Packs/Case

\*.37 mm O.D. tips are for use with 0.4 mm gels; .17 mm O.D. tips are for use with 0.2 mm gels

\*\*Gel Loading Tip Packaging: an individual pack is a tip rack of 200 tips



## Tip Compatibility Chart

Tip Compatibility Chart		Single/ Multichannel Compatibility*	ULTRA-MICRO AND STANDARD TIPS										
			10 µl ultra G	10 µl E	10 µl LongReach	10 µl OneTouch	200 µl	200 µl Standardization	200 µl OneTouch	300 µl NX	300 µl XT	1000 µl†	1000 µl XT
BioHit													
mLine 3 µl	SC	■		■	■								
mLine 10 µl	SC/MC	■	■	■	■								
mLine 20 µl	SC					■	■	■	■	■			
mLine 100 µl	SC/MC					■	■	■	■	■			
mLine 200 µl	SC					■	■	■	■	■			
mLine 300 µl	MC					■	■	■	■	■			
mLine 1000 µl	SC										■	■	■
ProLine® 3 µl	SC	■		■	■								
ProLine 10 µl	SC/MC	■	■	■	■								
ProLine 20 µl	SC					■	■	■	■	■			
ProLine 100 µl	SC/MC					■	■	■	■	■			
ProLine 200 µl	SC					■	■	■	■	■			
ProLine 300 µl	MC					■	■	■	■	■			
ProLine 1000 µl	SC										■	■	■
ProLine Mechanical 2.5 µl	SC	■	■	■	■								
ProLine Mechanical 50 µl	MC					■	■	■	■	■			
ProLine Mechanical 300 µl	MC							■	■	■			
eLine Advanced Electronic 10 µl	SC/MC	■	■	■	■								
eLine Advanced Electronic 120 µl	SC/MC					■	■	■	■	■			
eLine Advanced Electronic 300 µl	SC/MC							■	■				
eLine Advanced Electronic 1000 µl	SC										■	■	■
ePet Electronic 10 µl	SC/MC	■	■	■	■								
ePet Electronic 100 µl	SC					■	■	■	■	■			
ePet Electronic 100 µl	MC					■							
ePet Electronic 250 µl	MC					■	■						
ePet Electronic 1000 µl	SC										■	■	■
ProLine Electronic 10 µl	SC	■		■									
ProLine Electronic 100 µl	SC/MC					■	■	■	■	■			
ProLine Electronic 250 µl	SC					■	■	■	■	■			
ProLine Electronic 250 µl	MC							■	■	■			
ProLine Electronic 1000 µl	SC										■	■	■
Eppendorf													
Reference 2.5 µl	SC	■	■	■	■								
Reference 10 µl	SC	■	■	■	■								
Reference 20 µl	SC					■	■	■		■			
Reference 100 µl	SC					■	■	■		■			
Reference 200 µl	SC					■	■	■	■	■			
Reference 1000 µl	SC										■	■	■
Research 2.5 µl	SC	■	■	■	■								
Research 10 µl	SC	■	■	■	■								
Research 10 µl	MC	■	■		■								
Research 20 µl	SC					■	■	■		■			
Research 100 µl	SC					■	■	■		■			
Research 100 µl	MC					■	■			■			
Research 200 µl	SC					■	■	■	■	■			
Research 300 µl	MC								■	■			
Research 1000 µl	SC										■	■	■
Research Pro10 µl	SC/MC	■	■	■	■								
Research Pro 300 µl	SC					■	■	■	■	■			

\*SC = Compatible with single channel pipettors only; MC = compatible with multichannel only; SC/MC = Compatible with either single or multichannel.

[illegible]



## Tip Compatibility Chart

(continued)

### Eppendorf (continued)

	Single/ Multichannel Compatibility*	10 µl ultra G	10 µl E	10 µl LongReach	10 µl OneTouch	200 µl	200 µl Standardization	200 µl OneTouch	300 µl NX	300 µl XT	1000 µl†	1000 µl XT	1000 µl OneTouch
Research Pro 300 µl	MC					■							
Research Pro 1000 µl	SC										■	■	■
Research Plus 10 µl	SC	■	■	■	■								
Research Plus 10 µl	MC	■	■	■									
Research Plus 200 µl	SC					■	■	■	■	■			
Research Plus 300 µl	MC						■	■					
Research Plus 1000 µl	SC										■	■	■

### Gilson

Pipetman 10 µl	SC	■	■	■	■								
Pipetman 20 µl	SC					■	■			■			
Pipetman 100 µl	SC					■	■			■			
Pipetman 200 µl	SC					■	■	■	■	■			
Pipetman 1000 µl	SC										■	■	■
Pipetman Neo 2 µl	SC	■	■	■	■								
Pipetman Neo 10 µl	SC	■	■	■	■								
Pipetman Neo 100 µl	SC					■	■			■			
Pipetman Neo 200 µl	SC					■	■	■	■	■			
Pipetman Neo 1000 µl	SC										■	■	■
Pipetman Ultra 100 µl	SC					■	■			■			

### Labnet

Labpette 2 µl	SC	■	■	■	■								
Labpette 10 µl	SC/MC	■	■	■	■								
Labpette 20 µl	SC					■	■	■	■	■			
Labpette 50 µl	MC					■	■	■	■	■			
Labpette 100 µl	SC												
Labpette 200 µl	SC					■	■	■	■	■			
Labpette 200 µl	MC					■	■	■	■	■			
Labpette 300 µl	MC					■	■	■	■	■			
Labpette 1000 µl	SC										■	■	■

### Rainin

Pipet-Plus Latch Mode 2 µl	SC	■		■	■								
Pipet-Plus Latch Mode 10 µl	SC	■	■	■	■								
Pipet-Plus Latch Mode 20 µl	SC					■	■			■			
Pipet-Plus Latch Mode 100 µl	SC					■	■						
EDP 10 µl	SC	■		■	■								
EDP 20 µl	SC					■	■			■			
EDP 25 µl	SC					■	■			■			
EDP 100 µl	SC					■	■	■	■	■			
EDP 200 µl	SC					■	■	■		■			
EDP 250 µl	SC							■	■	■			
EDP 1000 µl	SC										■	■	■

### Socorex

Acura 2 µl	SC	■	■	■	■								
Acura 10 µl	SC/MC			■	■								
Acura 20 µl	SC					■	■			■			
Acura 50 µl	SC/MC					■	■	■		■			
Acura 100 µl	SC					■	■	■		■			
Acura 200 µl	SC/MC					■	■	■	■	■			
Acura 1000 µl	SC										■	■	■

\*SC = Compatible with single channel pipettors only; MC = compatible with multichannel only; SC/MC = Compatible with either single or multichannel.

