



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 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 ddH₂O 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 ddH₂O in a spectrophotometer sample tube and analyzed with a DU-70 spectrophotometer (Beckman-Coulter) at 280 nm wavelength.











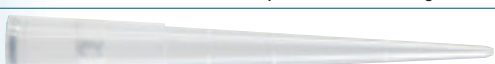



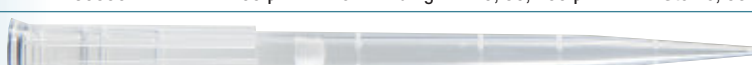

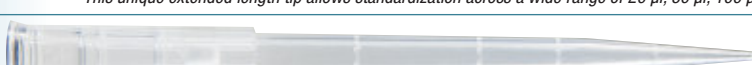





Results: Low binding tips exhibit as much as a threefold decrease in protein binding compared to conventional and low retention tips and performance is not compromised after autoclaving (data not shown).



Australian distributors:
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MultiGuard™ Barrier Tips

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



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