BIOTIX
LIQUID HANDLING

SPEC SHEET

uTIP

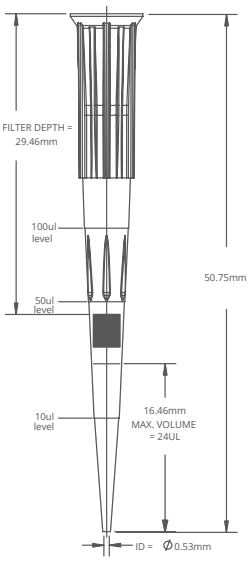
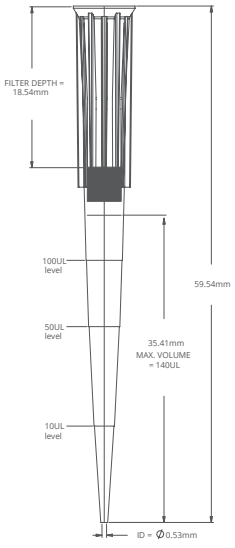
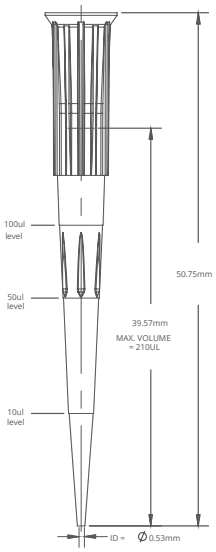
20 µL 100 µL 200 µL

Biotix® uTIP® Filter and Non-Filter Pipette Tips

M-0020-9FC

M-0100-9FC

M-0200-9SC

Description	uTip® Filter Pipette Tips, Low Retention		uTip® Pipette Tips, Low Retention			
Biotix Part #	M-0020-9FC	M-0100-9FC	M-0200-9SC	M-0200-9NC	M-0200-9TS	M-0200-9TN
Maximum Volume	23 µL	100 µL	210 µL	210 µL	210 µL	210 µL
Graduation levels	10, 50, 100	10, 50, 100	10, 50, 100	10, 50, 100	10, 50, 100	10, 50, 100
Filtered	Yes	Yes	No	No	No	No
Low Retention	Yes	Yes	Yes	Yes	Yes	Yes
Certified Pre-Sterile	Yes	Yes	Yes	No	Yes	No
BioReady	Yes	Yes	Yes	Yes	Yes	Yes
Material	Clear Polypropylene	Clear Polypropylene	Clear Polypropylene	Clear Polypropylene	Clear Polypropylene	Clear Polypropylene
Packaging	96 tips/rk 10 rk/pk	96 tips/rk 10 rk/pk	96 tips/rk 10 rk/pk	96 tips/rk 10 rk/pk	10 inserts/pk 5 pk/CS	10 inserts/pk 5 pk/CS
Technical Drawings						

Quality Testing

RNase/DNase	Products are washed in distilled water and concentrated via centrifugation. Samples are added to previously established nucleic acid standards, incubated for one hour at 37°C, and tested on a 2% gel using electrophoresis. Products must show no degradation of standards to pass. Test sensitivity is 10-7 Kunitz units/µL.
Nucleic Acid	Products are washed in distilled water and concentrated via centrifugation. Then, samples are added to protocol specified PCR reactions and thermal cycled for 50 cycles. A 2% agarose gel electrophoresis is used to examine experimental samples, positive controls, and negative controls. To pass, product samples must show no DNA amplification. Test sensitivity is 10 ng.
Endotoxin/ Pyrogen	Products are tested for endotoxins by using the Limulus Amebocyte Lysate (LAL) gel assay according to FDA guidelines. Test sensitivity is 0.06 EU/ml.
Trace Metal	Products are washed in distilled water. The sample is then tested using reflectometry using a single strip test for the following metals: Ca, Cu, Fe, K, Mg, Mn and Ni. Standard solutions are used as positive controls. A reader is used to detect metals to a sensitivity of 500 mg/L.
PCR Inhibitor	Products are tested via PCR amplification and gel electrophoresis analysis. Samples must show normal amplification to be considered free of PCR inhibitors.
Sterilization	Products are sterilized to 10^{-3} sterility insurance level (SAL).
CV Test	Each lot of Biotix product is CV tested and the resulting CV is then printed on the pack label. The volumetested is equal to the maximum volume per tip size.

Proprietary Technologies

FlexFit®	Provides flexibility on the proximal end of tips, dramatically minimizing the necessary insertion to make a secure seal
X-Resin®	Proprietary polypropylene resin designed to reduce sample retention without the risk of leeching or sample contamination
Blade®	Blade technology reduces the frequency of hanging droplets increasing both accuracy and precision

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