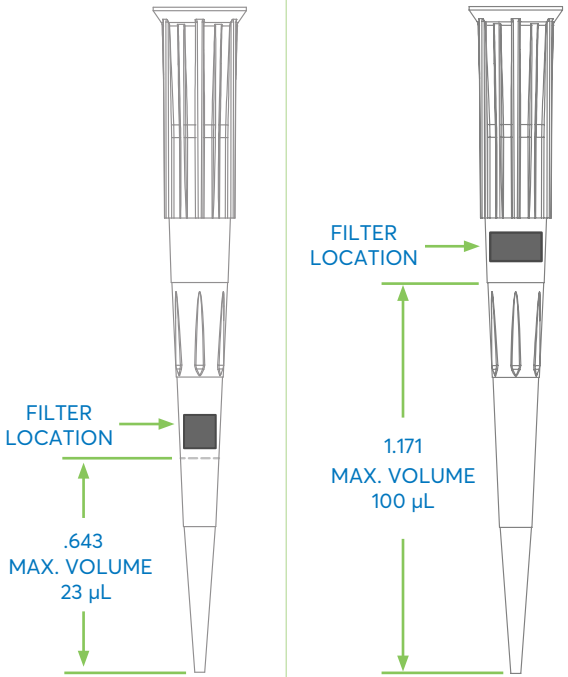
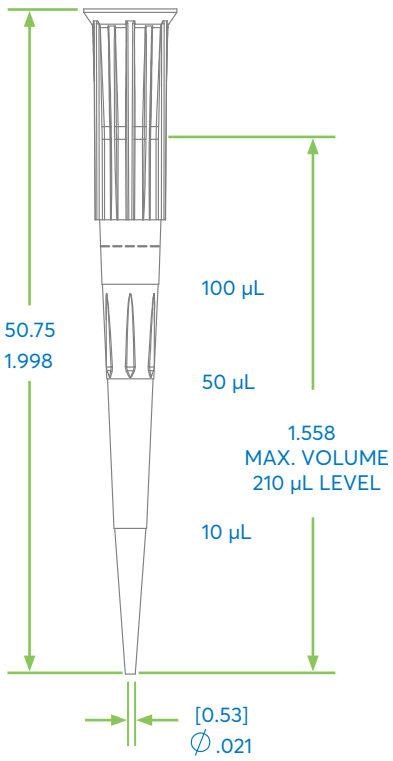


# Technical data sheet

## VWR® UNIVERSAL PIPET TIPS, 20 µL, 100 µL, 200 µL

| Description              | Filter Pipet Tips                                                                   |                               | Non-Filter Pipet Tips                                                                 |                               |                                 |                                 |
|--------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|-------------------------------|---------------------------------|---------------------------------|
| Cat. No                  | 76322-134                                                                           | 76322-136                     | 76322-516                                                                             | 76322-144                     | 76323-400                       | 76323-390                       |
| Volume                   | 20 µL                                                                               | 100 µL                        | 200 µL                                                                                | 200 µL                        | 200 µL                          | 200 µL                          |
| Maximum Available 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                 | Polypropylene                                                                       | Polypropylene                 | Polypropylene                                                                         | Polypropylene                 | Polypropylene                   | Polypropylene                   |
| Packaging Type           | Racked                                                                              | Racked                        | Racked                                                                                | Racked                        | Reload                          | Reload                          |
| Packaging                | 96 Tips/Rack,<br>10 Rack/Pack                                                       | 96 Tips/Rack,<br>10 Rack/Pack | 96 Tips/Rack,<br>10 Rack/Pack                                                         | 96 Tips/Rack,<br>10 Rack/Pack | 10 Inserts/Pack,<br>5 Pack/Case | 10 Inserts/Pack,<br>5 Pack/Case |
| Technical Drawings       |  |                               |  |                               |                                 |                                 |



76322-134



76322-136



76322-516

## QUALITY TESTING

|                          |                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RNase/DNase</b>       | 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 <sup>-7</sup> Kunitz units/μL.                                      |
| <b>Nucleic Acid</b>      | 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 10ng. |
| <b>Endotoxin/Pyrogen</b> | 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.                                                                                                                                                                                                                            |
| <b>Trace Metal</b>       | 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.                                                                                        |
| <b>PCR Inhibitor</b>     | Products are tested via PCR amplification and gel electrophoresis analysis. Samples must show normal amplification to be considered free of PCR inhibitors.                                                                                                                                                                                                                      |
| <b>Sterilization</b>     | Products are sterilized to 10 <sup>-3</sup> sterility assurance level.                                                                                                                                                                                                                                                                                                           |
| <b>CV Test</b>           | Each lot is CV tested and the resulting CV is then printed on the pack label. The volume tested is equal to the maximum volume per tip size.                                                                                                                                                                                                                                     |

## FEATURED PROPRIETARY TECHNOLOGIES

- Flexibility on the proximal end of tips dramatically minimizes the necessary insertion to make a secure seal
- Exclusive polypropylene resin reduces sample retention without the risk of leaching or sample contamination
- Pipet tip technology designed to reduce the frequency of hanging droplets, increasing both accuracy and precision



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