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Scientific®**

## Evaluation of Low Retention Tips compared to competitors Regular and Low Retention Tips

The real-life environment of a university molecular biology lab was selected for product comparison tests, using samples and reagents in every-day use in life science research applications. Most pipette manufacturers recommend pre-rinsing of tips 3-5 times to wet the inner wall prior to pipetting. In addition, many researchers in practice use the same tip not only once, but several times.

Our test method therefore took account of these facts and our tips' performance was evaluated after several aspirations and dispense cycles. This method clearly demonstrated significant and measurable differences between brands, as the number of pipettings increased. We consider this to more realistic in actual user practices.

- many manufacturers claim low retention for their tips, but the low retention performance in a variety of applications is highly variable from one brand to another
- BioPointe Bioscience Low Retention demonstrates the superior tip performance over the other brands tested, in the widest range of pipetting applications

|  | Typical Reg. Tip                          | Comp. A                     | Low Retention Comp. B                     | Comp. C                     | GGB-LFR™                        |
|--|---|-----------------------------|---|-----------------------------|---------------------------------|
| Food color (w/PP Glycol)                     | <b>X</b><br>Thick film from top to bottom | ✓<br>Tiny residue at bottom | <b>X</b><br>Many drops from top to bottom | ✓<br>Tiny residue at bottom | ✓<br>Tiny residue at bottom     |
| Protein BSA 100mg/ml                         | △<br>Thin film residue                    | ✓<br>Clean, almost clean    | ✓<br>Clean, almost clean                  | ✓<br>Clean, almost clean    | ✓<br>Clean, almost clean        |
| DNA 1µg/µl                                   | <b>X</b><br>Large drops                   | ✓<br>Clean                  | △<br>Thin film residue                    | ✓<br>Clean                  | ✓<br>Clean                      |
| DNA Marker 1µg/µl                            | <b>X</b><br>Thick residue                 | ✓<br>Almost clean           | △<br>Many small drops                     | ✓<br>Almost clean           | ✓<br>Almost clean               |
| LB (culture media)                           | △<br>Residue stick                        | △<br>Residue stick          | <b>X</b><br>Residue stick heavily         | △<br>Residue stick, better  | ✓<br>Residue stick, much better |
| Saturated Ammonium Sulphate                  | △<br>Thin residue stick                   | ✓<br>Clean                  | ✓<br>Clean                                | ✓<br>Clean                  | ✓<br>Clean                      |
| TAE (Tris-acetate-EDTA)                      | △<br>Thin film stick                      | ✓<br>Clean                  | △<br>Residue stick                        | ✓<br>Clean                  | ✓<br>Clean                      |
| Ethidium Bromide 10mg/ml in H <sub>2</sub> O | △<br>Residue stick                        | ✓<br>Very thin film stick   | ✓<br>Very thin film stick                 | ✓<br>Very thin film stick   | ✓<br>Very thin film stick       |
| ✓ = good                                     | 0   | 7                           | 3   | 7                           | <b>8</b>                        |
| △ = not good                                 | 5   | 1                           | 3   | 1                           | <b>0</b>                        |
| <b>X</b> = unacceptable                      | 3   | 0                           | 2   | 0                           | <b>0</b>                        |

BioPointe Bioscience Low Retention technology is available in Universal Fit Pipette Tips, Filter Barrier Tips, and ClickSeal™ MicroCentrifuge Tubes. This advantage is perfect for researchers who require:

- the highest level of low-retention to improve pipetting accuracy and precision
- to minimize loss of precious samples and expensive reagents

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