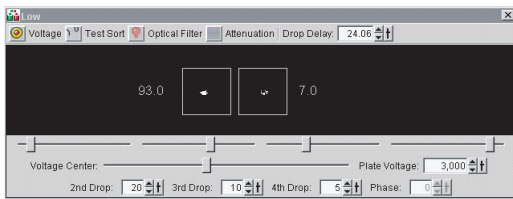


SPHERO™ Drop Delay Calibration Particles

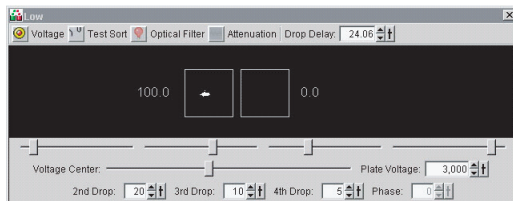
- Aids in the determination of the drop delay value
- Increases the accuracy and productivity while sorting
- Consists of 2 mL at 1×10^8 particles/mL of a single population of fluorescent particles
- Contains a mixture of fluorophores which allows detection in multiple channel flow cytometers.

| Particle Type and Surface | Size, μm | Catalog No. | Unit |
|--|---------------------|-------------|-------|
| Drop Delay Calibration, $10^8/\text{mL}$ | 6.0-8.0 | DDCP-70-2 | 2 mL |
| Drop Delay Calibration, $10^8/\text{mL}$ | 6.0-8.0 | DDCP-70-20 | 20 mL |

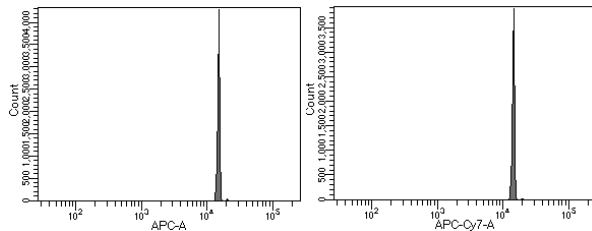
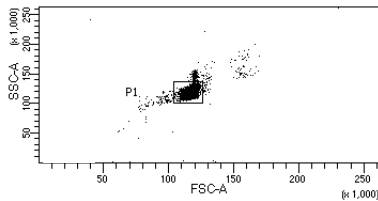
The SPHERO™ Drop Delay Calibration Particles are fluorescent particles to aid in the determination of the drop delay value for flow cytometer sorters with the appropriate attachment. As a result of using the Drop Delay Calibration Particles and the appropriate attachment, the accuracy and productivity during sorting is enhanced.



Initial Drop Delay Profile with Spherotech Drop Delay Calibration Particles



Optimized Drop Delay Profile with Spherotech Drop Delay Calibration Particles



Dot plot and histograms of DDCP-70-2

SPHERO™ AccuCount Ultra Rainbow and Fluorescent Beads for Drop Delay Calibration Particles during Large Cell Sorting

- Used to determine the Drop-Charge Delay (DCD) and Laser Time Delays (LTD) during larger cell sorting
- Used to determine if the flow of larger particles is unaffected by instrument design

| Particle Type and Surface | Size, μm | Catalog No. | Unit |
|--|--|-----------------|------|
| AccuCount Ultra Rainbow Fluorescent, $5 \times 10^7/\text{mL}$ | 7.0 μm (+/-1 μm) | ACURFP50-70-1 | 1 mL |
| AccuCount Ultra Rainbow Fluorescent, $2 \times 10^7/\text{mL}$ | 10.0 μm (+/-1 μm) | ACURFP20-100-1 | 1 mL |
| AccuCount Ultra Rainbow Fluorescent, $5 \times 10^6/\text{mL}$ | 15.0 μm (+/-2 μm) | ACURFP5-150-1 | 1 mL |
| AccuCount Ultra Rainbow Fluorescent, $5 \times 10^6/\text{mL}$ | 20.0 μm (+/-2 μm) | ACURFP5-200-1 | 1 mL |
| AccuCount Ultra Rainbow Fluorescent, $5 \times 10^6/\text{mL}$ | 20.0 μm (+/-2 μm) | ACURFP5-200-5 | 5 mL |
| AccuCount Ultra Rainbow Fluorescent, $2.5 \times 10^6/\text{mL}$ | 25.0 μm (+/-2 μm) | ACURFP2.5-250-1 | 1 mL |
| AccuCount Ultra Rainbow Fluorescent, $2.5 \times 10^6/\text{mL}$ | 25.0 μm (+/-2 μm) | ACURFP2.5-250-5 | 5 mL |
| AccuCount Ultra Rainbow Fluorescent, $2.5 \times 10^6/\text{mL}$ | 30.0 μm (+/-2 μm) | ACURFP2.5-300-1 | 1 mL |
| AccuCount Ultra Rainbow Fluorescent, $2.5 \times 10^6/\text{mL}$ | 30.0 μm (+/-2 μm) | ACURFP2.5-300-5 | 5 mL |
| AccuCount Fluorescent, $5 \times 10^7/\text{mL}$ | 7.0 μm (+/-1 μm) | ACFP50-7056-1 | 1 mL |
| AccuCount Fluorescent, $2 \times 10^7/\text{mL}$ | 10.0 μm (+/-1 μm) | ACFP20-10056-1 | 1 mL |
| AccuCount Fluorescent, $5 \times 10^6/\text{mL}$ | 15.0 μm (+/-2 μm) | ACFP5-15056-1 | 1 mL |
| AccuCount Fluorescent, $5 \times 10^6/\text{mL}$ | 20.0 μm (+/-2 μm) | ACFP5-20056-1 | 1 mL |
| AccuCount Fluorescent, $2.5 \times 10^6/\text{mL}$ | 25.0 μm (+/-2 μm) | ACFP2.5-25056-1 | 1 mL |
| AccuCount Fluorescent, $2.5 \times 10^6/\text{mL}$ | 30.0 μm (+/-2 μm) | ACFP2.5-30056-1 | 1 mL |

Selected References for Large Drop Delay Beads:

Mazel, S, Fang, F., Semova, S. Semova, Georgala, P., and Gardner, R. "Size Matters": On the Challenges of Sorting Large Cells with Conventional Droplet Cell Sorters. Poster presented at: 1st CYTO ASIA Scientific Conference; 2017 Oct 25-27; Singapore.