

**FLOW CYTOMETRY CHART**

| Category     | Purpose   | Frequency   | Products  |
|--------------|---|---|---|
| Daily QC     | General check of instrument stability/status                                    | Daily   | Full Spectrum™ (multi)<br>Ultra Rainbow Fluorescent Particles (multi)<br>Fluorescence Reference Standards (single)                          |
| Daily QC     | General check of instrument optical system                                      | Daily   | Full Spectrum™ (multi)<br>Ultra Rainbow Fluorescent Particles (multi)<br>Fluorescence Reference Standards (single)                          |
| Daily QC     | Optical Alignment   | Daily   | Right Reference Standard™   |
| Daily QC     | Fluidics check  | Daily   | Surface-labeled fluorescent microspheres, e.g.<br><br>QC Windows®<br>QC3™<br>Fluorescence Reference Standards<br>Quantum™ MESF              |
| Weekly QC    | Optical System Sensitivity, Resolution for Linearity (for specific lasers/PMTs) | Weekly  | Quantum™ MESF   |
| Daily Set-Up | Standardized instrument set-up  | Daily, or<br><br>Between runs if settings are changed   | QC Windows®<br>QC3™   |
| Daily Set-Up | Standardized compensation settings for multicolor analyses                      | Daily, or<br><br>Between runs if settings are changed   | FITC/PE Compensation Standard<br>Simply Cellular® Compensation Standard<br>Quantum™ Simply Cellular®  |
| Application  | Fluorescence quantitation in cellular expression studies or bead-based assays   | Daily when quantitative analyses are performed, or<br><br>Between different applications if fluorescence PMT or compensation settings are changed | Quantum™ MESF<br>Quantum™ Simply Cellular®  |
| Application  | F:P Ratio determination for quantitative fluorescence analyses                  | As needed, i.e. with each new Lot of fluorochrome-conjugated antibody   | Simply Cellular® (used in conjunction with Quantum™ MESF)   |
| Application  | Compensation for multicolor flow cytometry                                      | Daily, or<br><br>Between different applications if fluorescence PMT or compensation settings are changed  | FITC/PE Compensation Standard<br>Simply Cellular® Compensation Standard<br>Quantum™ Simply Cellular®<br>Viability Dye Compensation Standard |
| Application  | Cell Counting   | As needed   | Flow Cytometry Absolute Count Standard™   |
| Application  | Cell Size Estimation  | As needed   | Size Calibration Standards Kit  |
| Application  | Suspension Array  | Platform for development of bead-based flow cytometric assays   | QuantumPlex™<br>QuantumPlex™M   |