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BD FACSAria Fusion allows high speed and single cell sorting of up to sixteen parameters (forward & side spread and 14 fluorescence detectors). It is equipped with four lasers: 405nm, 488nm, 561nm, and 640nm. BD FACSAria Fusion has the ability to four-way sorting in tubes or single cell sorting directly into plates or slides. It is housed in a biosecurity cabinet for sorting BSL-2 biorisk samples. Please click [here](#) for optical layout. At the heart of BD FACSAria Fusion is the patented next generation quartz cuvette flow cell that is in true solid alignment with the laser, and is gel linked to the collection optics. This patented design helps to ensure that lasers are precisely focused on the sample current so that the largest signal is generated, and that the maximum amount of light emitted is collected. Fixed alignment minimizes start time, improves experiment reproducibility to experimentation, and reduces operator-to-operator variability and enables automated daily quality control. Most importantly, it also improves collection efficiency and optimizes the resolution needed for multicolor applications, even in high-speed sorting settings. In addition to other benefits, the next-generation flow cell in BD FACSAria Fusion is designed to improve resolution for side population applications and DNA cell cycle analysis. High-performance analysis, high-performance sorting BD FACSAria Fusion features fluorescence sensitivity comparable to state-of-the-art dedicated analytics platforms. This is accomplished by using a gel-coupled cuvette design similar to BD FACSCanto™, BD FACSVerse™, and BD LSRFortessa™ systems, and the same fixed optical architecture. This flow cell and nozzle design architecture achieves high numerical aperture light collection. Cells or particles pass through the analysis zone at low speeds that improve maximum light collection, before accelerating through the nozzle at current speeds to achieve the droplet speeds required for high-performance sorting. Through the precise coordination of optical and fluid systems, BD FACSAria Fusion delivers exceptional optical detection sensitivity compared to traditional current-in-air systems, where particle speeds are the same for both analysis and sorting. Aligns with biosecurity support Fixed alignment of flow cell and software control of the system also reduce the frequency of operator interaction with the instrument, providing an additional level of biosecurity support. Sensitivity to solving dim staining populations Improvements to the BD FACSAria Fusion optical system bring fluorescence sensitivity to an even higher level. Specifically selected for optimal signal-to-noise separation, the new lasers improve the resolution of obscure populations, allowing for more efficient gating for sorting. With high performance, the lasers allow dim populations to fluoresce brighter, facilitate population resolution and allow subsequent gating for sorting. Nozzles for a range of particles A selection of nozzles allows users to sort a wide range of particle sizes. Nozzles come in four sizes: 70, 85, 100, and 130 microns. Nozzles are located below the point where cells are interrogated by lasers and are readily available and easy to change, with a design that offers dense registration for a secure fit. This involves a reproducible release profile after each nozzle exchange, resulting in reproducible instrument setup and customization. The program sort setting matches print and sorts settings to the nozzle used. BD FACSAria Fusion allows high speed and single cell sorting of up to sixteen parameters (forward & side spread and 14 fluorescence detectors). It is equipped with four lasers: 405nm, 488nm, 561nm, and 640nm. BD FACSAria Fusion has the ability to four-way sorting in tubes or single cell sorting directly into plates or slides. It is housed in a biosecurity cabinet for sorting BSL-2 biorisk samples. Please click [here](#) for optical layout. At the heart of BD FACSAria Fusion is the patented next generation quartz cuvette flow cell that is in true solid alignment with the laser, and is gel linked to the collection optics. This patented design helps to ensure that lasers are precisely focused on the sample current so that the largest signal is generated, and that the maximum amount of light emitted is collected. Fixed alignment minimizes start time, improves experiment reproducibility to experimentation, and reduces operator-to-operator variability and enables automated daily quality control. Most importantly, it also improves collection efficiency and

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