

CONTAINMENT TESTING OF HIGH-SPEED CELL SORTERS

Yale EHS Biosafety has developed a user group of cell sorting core facility managers who are experienced in the appropriate biosafety practices for the use of biohazards in high-speed cell sorters. Each representative from this cell sorting biosafety group is experienced in the containment testing of high-speed cell sorters. High-speed cell sorters associated with core high-speed cell sorting facilities at Yale have appropriate containment devices to confine aerosols and have been evaluated by these operators and confirmed by Yale EHS.

If you have purchased or obtained a new cell sorter, EHS will collaborate with you on the risks involved with your research materials and will arrange for the containment testing of your sorter prior to use with biohazards. EHS and the cell sorting facility operators who comprise the cell sorting biosafety group will use the testing methods outlined below to verify that any aerosols that could be generated during a high-speed sort of biohazards with your sorter and the corresponding containment in place will not lead to aerosol release to the room.

Please contact the Yale EHS Biosafety Office to schedule containment testing for your cell sorter.

- [Novel Impactor and Microsphere-Based Assay Used to Measure Containment of Aerosols Generated in a Flow Cytometer Cell Sorter \(Perfetto et. al. Cytometry Part A\)](#)
- [International Society for the Advancement of Cytometry Cell Sorter Biosafety Standards \(Holmes et al, Cytometry Part A\)](#)