

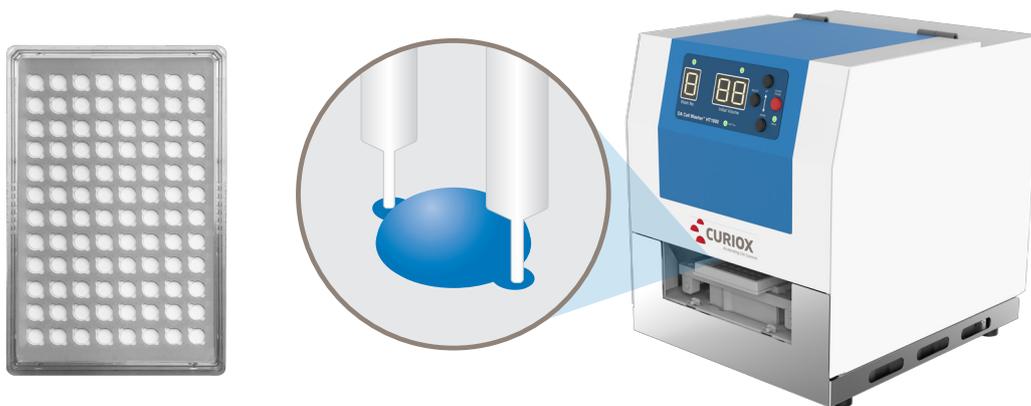
The Laminar Wash™ HT1000 System

The Future of Automated Suspension Cell Assays

Curiox easily enables cost-effective and easy automation of flow cytometry assays with Laminar Wash™ technology. Laminar Wash technology enables superior consistency and robust flow cytometry data using centrifuge-less washing. The Laminar Wash technology provides an advantage to scientists in processing suspension cells for flow cytometry. Eliminating the usage of the centrifuge has tremendously improved workflows and time management prior to flow cytometry analysis. In the conventional flow cytometry protocol which utilizes the centrifugation

method, immune cells undergo numerous washes that generate significant stress to cells. This in turn increases the alteration of biomarker pathways as well as cell loss.

The Laminar Wash HT1000 system integrated into an automation platform allows a scientist to spend more time on science by saving time while providing consistent data. The Laminar Wash process can be completed in a total of 3 minutes. Integration of Laminar Wash Systems into automation is simple and straightforward.



The Laminar Wash System uses specially designed plates which accommodate 2 automated nozzles that gently wash suspension cells.

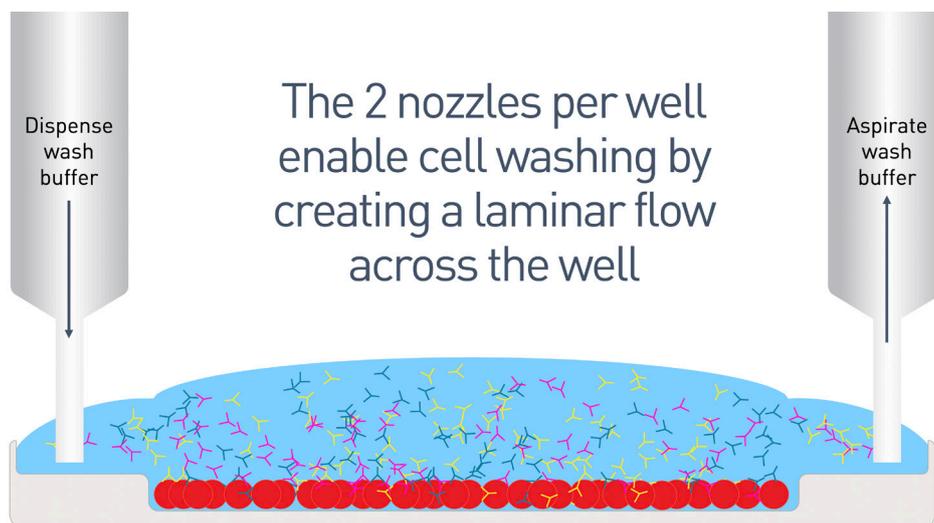
The Laminar Wash System provides:

- Consistent and reproducible results among users and sites
- Increased cell retention for assays with splenocytes and TILs or with rare population cells
- Improved cell segregation and resolution
- A wide range of cell numbers at 1 cell – 10 million cells per well
- No stress on cells from centrifugation and improved viability
- Reduced debris and aggregation of cells
- Cleaner and faster washing

How does it work?

Using specially designed wall-less 96-well plates, which can be used full or partially, cells and reagents are loaded into the wells. Gravity causes the cells to settle to the bottom of the plate. The Laminar Wash system uses 2 nozzles per well to create laminar flow across the well. Through diffusion, unbound antibodies move upward in the cell layer and are washed away by laminar flow. Seven cycles in the Laminar Wash system are equivalent to 2X washes in a FACS tube.

The Laminar Wash System saves time, washing cells in 3 minutes vs. 30 minutes with centrifugation. Eliminating the user variability inherent with centrifugation, the Laminar Wash System offers consistency across multiple users and locations.



Comparison of Robotic Movement by Laminar Wash System and Centrifugation

Washing by Laminar Wash (eq. to 2x)



3 min for 3 moves
Easy integration
Easy maintenance

Washing by Centrifugation (2x)



30 min for 19 moves
Intensive integration
Intensive maintenance

Integration of a centrifuge into automation is difficult, awkward, and expensive!

To learn more about the new DA-Cell system or request a demo, visit www.curiox.com/flowcytometry or email us at sales@curiox.com

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