

PS-10™ SAMPLE PREPARATION SYSTEM

Thoughtful automation
for a new level of
workflow efficiency





The PS-10™ Sample Preparation System

Outstanding flexibility



Loading the auto-sampler

The PS-10 Sample Preparation System alleviates the primary bottleneck in today's busy clinical flow cytometry laboratory, while providing outstanding flexibility for the creation of complex, laboratory tests.

Substantially improve laboratory processes

- Standardization of complex flow cytometry laboratory processes
- Walkaway automation with sample, reagent, and antibody traceability
- Virtual elimination of operator-dependent variability
- Powerful flexibility, allowing your existing laboratory procedures to be easily incorporated
- Multiple, integrated barcode readers for positive ID of samples and tube rotors to reduce operator errors

Procedure Definition		Steps	
Name: No Wash V2.0		Antibody/Cocktail	Incubation
1 Sample:	Vol. [μL]: 50 WBC Mode: Fixed	Lyse/Buffer	Cell Wash
2 Pipetting:	Antibody/Cocktail	Mix	
3 Mixing:	Mix	Lyse/Buffer Options	
4 Incubation [min]:	Minimum: 10 Maximum: 20	A	
5 Pipetting:	Lyse/Buffer: B	B	
6 Incubation [min]:	Minimum: 10 Maximum: 20	C	
7 Cell Wash [min]:	5	D	
		E	
		F	

Add traceability to your lab with easy to read reports which keep track of all important antibody, sample, and reagent information. Improve your documentation by recording sample ID, WBC count, lot number, expiration date, volume used, and clone for each pipetting step.

Flexible preparation processes

Custom procedures for sample preparation

- Multiple bulk reagent bottles for lyse and buffer solutions allow multiple reagent choices.
- Easily accommodate multiple lyse-wash, no-wash, and intracellular staining procedures.
- Centrifuge decanting allows for dry pellet creation for additional sample processing.

For wash procedures, the PS-10 rotors are directly compatible with the Helmer UltraCW[®] II Automatic Cell Washing System.

- Rotors can be easily transferred on and off the system for required wash steps, virtually eliminating daughter tube handling and human errors when transferring tubes to and from a centrifuge for washing.
- The UltraCW II is fully programmable for automatic wash cycles, decanting to a cell pellet, and resuspension of cells.



Helmer UltraCW II Cell Washing System

Sample preparation and automated cocktailing in one system

- PS-10 reagent blocks are color coded to conveniently accommodate a combination of Sysmex and other company's vials.
- Peltier-cooled locations keep antibody vial blocks and reagent cocktail blocks at optimum temperature.
- An automated cocktailing function is supplied for up to 90 simultaneous on-board antibody vials.
- Four open vial positions are available to accommodate a larger range of sample tube sizes.
- Reagent blocks containing antibodies can be conveniently refrigerated after use.



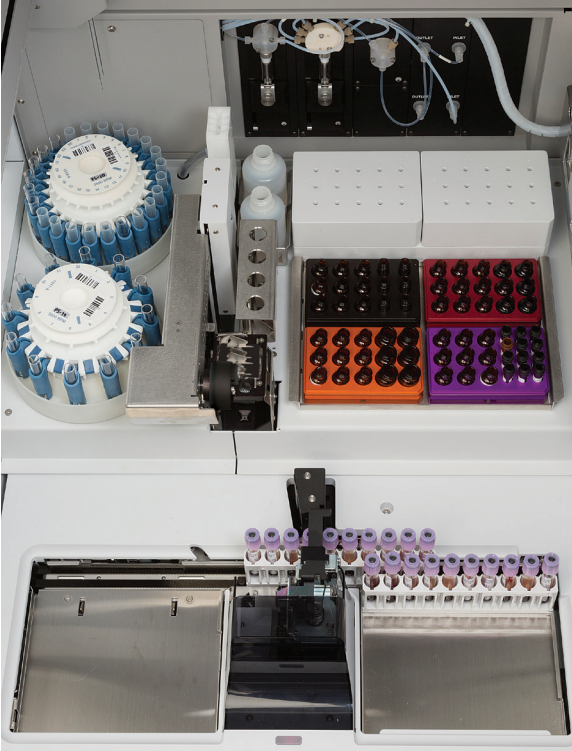
PS-10 racks hold up to 90 antibody reagents

High quality Sysmex reagents

All Sysmex reagents feature a convenient, readable QR code for automatic entry of reagent type, product code, lot number and expiry date.

The PS-10 is backed by Sysmex's commitment to the service and support laboratories need to meet the challenges of increasing demands and decreasing resources. With PS-10 sample preparation, Sysmex offers a new vision for Flow Cytometry.

Your new standard of testing



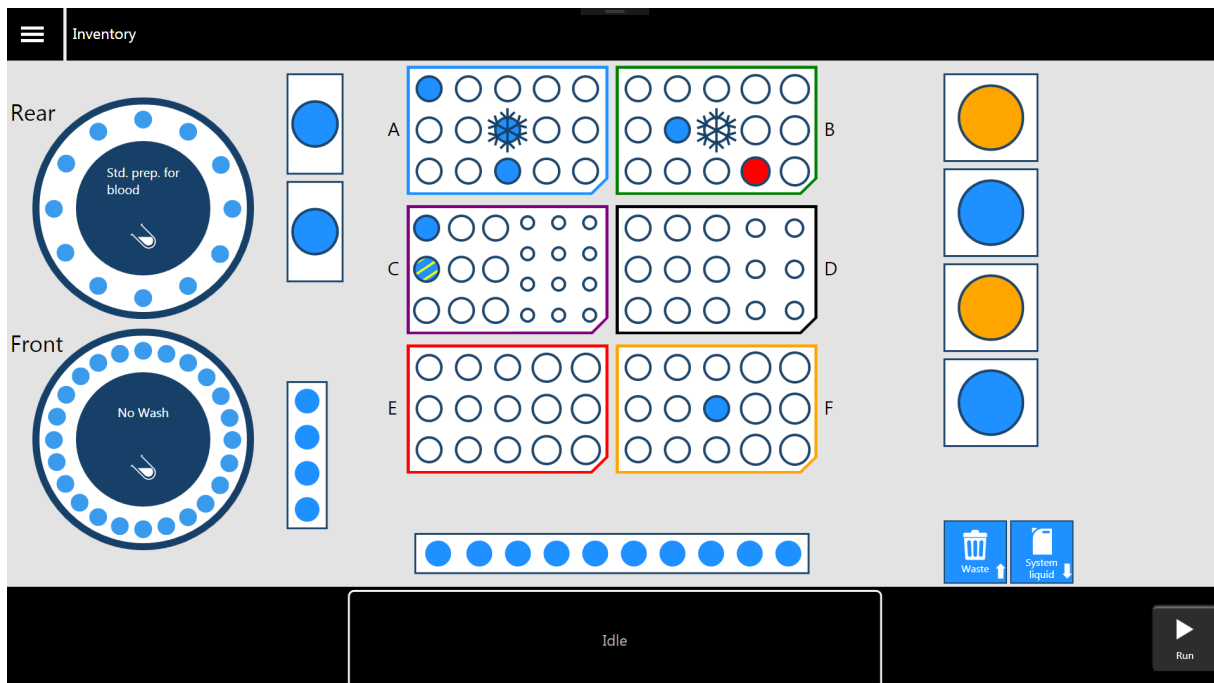
Accepts multiple reagent vial sizes

Flow cytometry testing your way

- Powerful tools allow you to easily create custom tests, panels and procedures.
- Information concerning reagent blocks, bulk reagents, tests, panels and procedures is stored for future reuse.
- Two cooled racks are available to ensure reagent or cocktail stability.
- Touch screen interface provides an easy overview of current inventory and testing progress

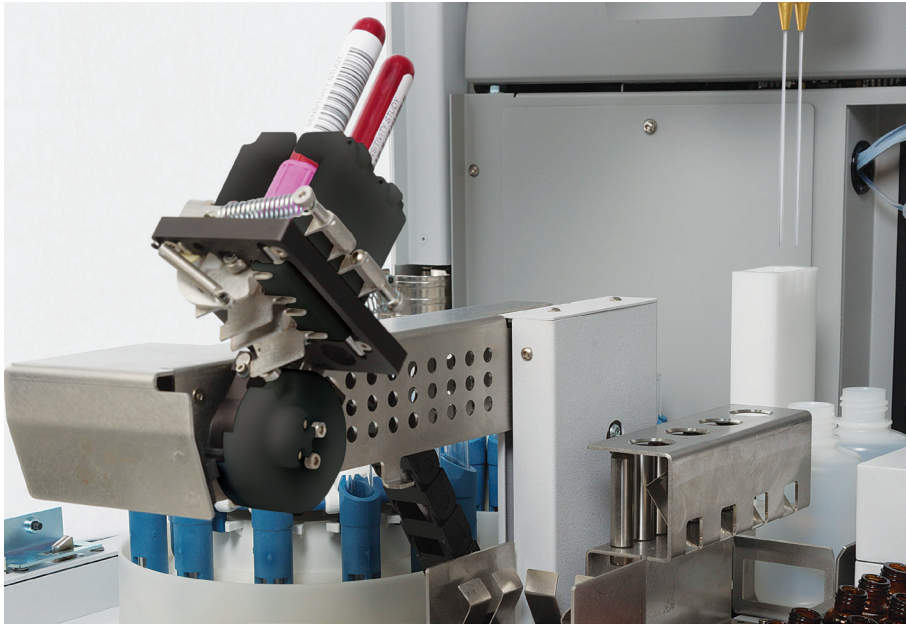
High-capacity smart autosampler for reliable and safe specimen handling

- Variables such as sample volume based on WBC count, antibody volume, incubation time, lyse and buffer volumes are all available for customization.
- There is no longer a need for cumbersome pre-dilution of primary specimens.



Example PS-10 screen

Maximizing your workflow efficiency



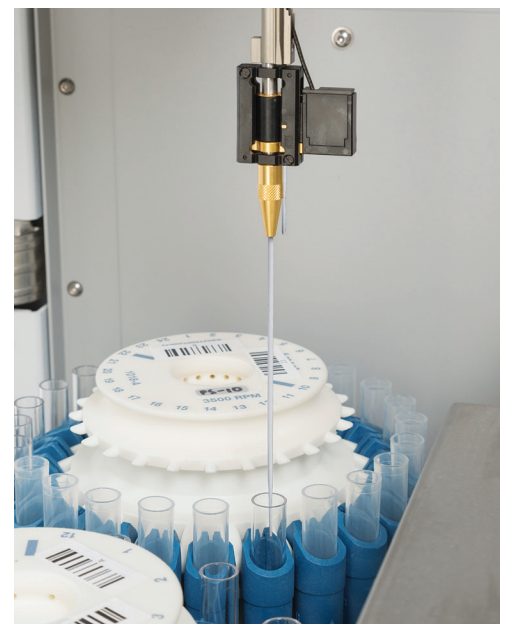
Primary specimen mixing

Design elements that maximize workflow efficiency

- Dual pipetting probes decrease the individual steps required during sample preparation.
- Robust, reliable cap piercing minimizes operator exposure to potentially hazardous biological specimens.
- Automatic allocation of daughter tubes eliminates the need for manual labeling.
- A single aspiration of blood or antibody allows multiple aliquots, saving time for multi-tube panels.

The new standard for throughput of routine, no-wash assays

- Processes approximately 2 x 24-tube rotors per hour, for no-wash assays.
- Dual rotor configuration enables batch processing.
- Continued sample processing during incubation and wash steps maximizes efficiency.
- All reagents and waste containers have level monitoring.



Dual pipetting probes for fast throughput

Features and Benefits

Automated cocktailing	<ul style="list-style-type: none">• No maximum number of antibodies per cocktail• Barcode scanning for Sysmex antibodies• Up to 90 antibody vials at a time• Antibody vial compatibility with common vendors
Helmer Ultra CW II Cell Washer	<ul style="list-style-type: none">• Utilize same rotor for transfer between centrifuge, PS-10, and XF-1600™
Automated WBC adjustment	<ul style="list-style-type: none">• Fixed, linear, or threshold WBC adjustment
Six bulk reagent positions	<ul style="list-style-type: none">• Allows system flexibility for varied testing protocols
Minimal maintenance requirements	<ul style="list-style-type: none">• Daily startup and shutdown• Monthly pipette volume check

Sysmex Corporation

1-5-1-Wakinohama-Kaigandori Chuo-ku, Kobe 651-0073, Japan · Phone +81 78 265-0521 · www.sysmex.co.jp

Sysmex America, Inc.

577 Aptakistic Road, Lincolnshire, IL 60069, U.S.A. · Phone +1 800 379-7639 · www.sysmex.com/us

Sysmex Canada, Inc.

5700 Explorer Drive Suite 200, Mississauga, ON L4W0C6 Canada · Phone +1 905 366-7900 · www.sysmex.ca

Sysmex Latin America and the Caribbean

Rua Joaquim Nabuco 615 - Bairro Cidade Jardim, São José dos Pinhais Paraná – Brasil – CEP 83040-210 · Phone +55 41 2104-1314 · www.sysmex.com.br