

PS-10™ Sample Preparation System

Smart Automation
for a New Level of
Workflow Efficiency



Versatile and Adaptable



Loading the autosampler

The PS-10 Sample Preparation System alleviates time-consuming processes 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.

Traceability and flexibility

Easy to read reports that track all significant antibody, sample, and reagent information will increase traceability in your lab. Record the sample ID, WBC count, lot number, expiration date, volume utilized, and clone for each pipetting step to improve your documentation.

PS-10 Rotor report

- User: Jane Doe
- Rotor number: 02
- Rotor type: Swing-out 12 tube rotor
- Instrument serial number: 1808011282
- Date: 2023-01-26 13:26
- Procedure: L-L BLD-BM 2.0
- Run started at 2023-01-26 13:01:04 ended at 2023-01-26 13:26:54
- Total runtime is 0:25:49

Tube position	Sample ID	Secondary ID	Sample type	WBC (x10 ³ /μL)	Panel	Test
1	57057771	57057771-01-01	Blood		DIFF-AML 1.0	DIFF 1.0
Sample used: - 100 μL of Blood Reagents used: - 40 μL of DI111111 (lot: 082522, expires 2023-03-25, legal status: ASR) Bulk reagents used: - 2000 μL of DD000001 (lot: 08172022, expires 2023-12-17, legal status: RUO)						
2	57057771	57057771-01-02	Blood		DIFF-AML 1.0	AML 1.0
Sample used: - 100 μL of Blood Reagents used: - 40 μL of DI111111 (lot: 082522, expires 2023-03-25, legal status: ASR) Bulk reagents used: - 2000 μL of DD000001 (lot: 08172022, expires 2023-12-17, legal status: RUO)						
3	57066067	57066067-01-03	Blood		DIFF-AML 1.0	DIFF 1.0
ABORTED: INCORRECT ANTIBODY COMPOSITION * Sample used: - 100 μL of Blood No reagents used No bulk reagents used						

This is an example report. Run times and information may differ depending on procedure.

*When incorrect antibody, test or panel is chosen that differs from the procedure assigned, an error message will appear and sample will not be processed.

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.

Classified



Automated cocktailing

- PS-10 reagent blocks are color-coded to conveniently accommodate a combination of Sysmex and non-Sysmex 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.
- Reagent blocks containing antibodies can be conveniently refrigerated after use.
- Antibody tracking through barcoded blocks

Compatible with Helmer UltraCW[®] Automatic Cell Washing System

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, resuspension of cells and can store multiple programs.



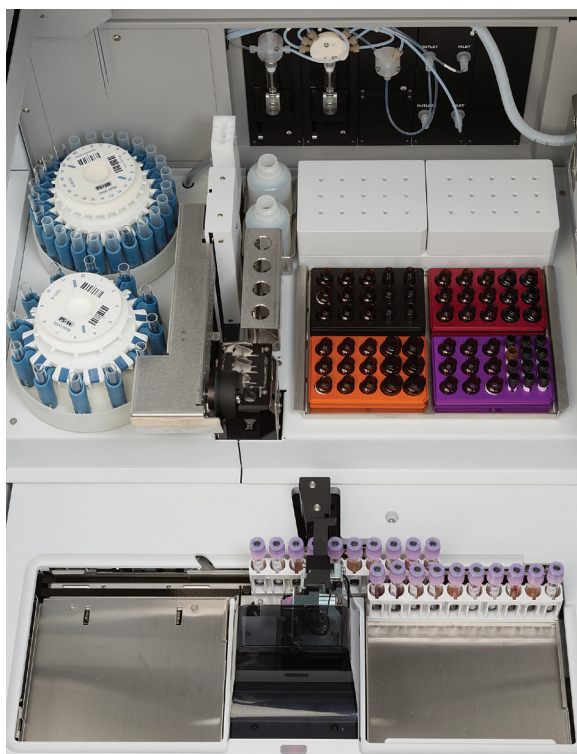
High quality Sysmex reagents

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



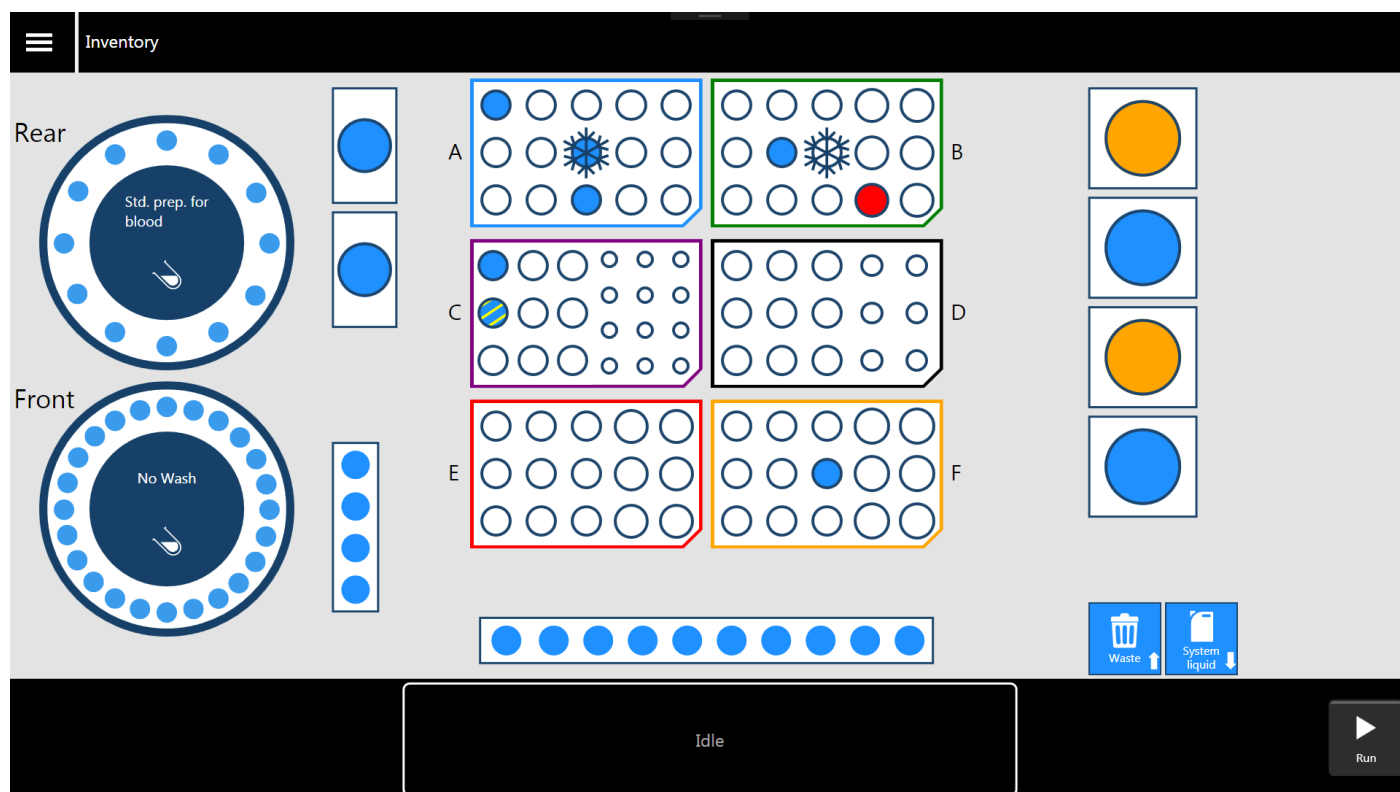
Accepts multiple reagent vial sizes

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.
- Touchscreen interface provides an easy overview of current inventory and testing progress.

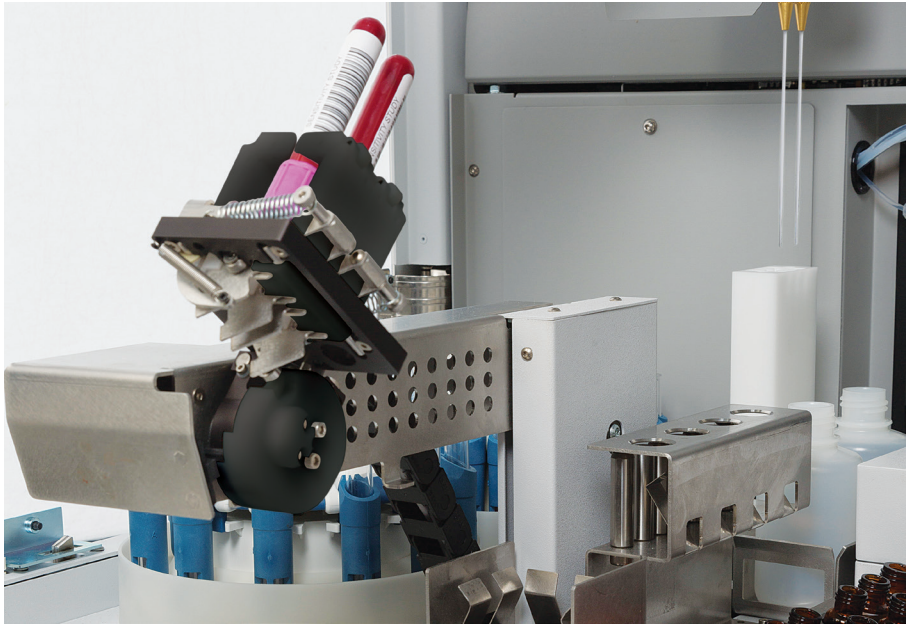
High-capacity smart autosampler for reliable and safe specimen handling

- 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



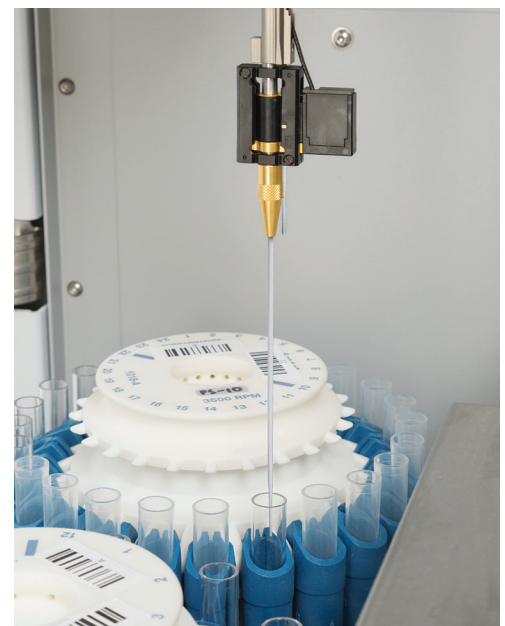
Primary specimen mixing

Design elements that maximize workflow efficiency

- Dual cap-piercing decreases steps required using sample preparation and dual piercing probes minimize 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 UltraCW II Cell Washer	<ul style="list-style-type: none">• Utilize same rotor for transfer between centrifuge, PS-10 and XF-1600™ Flow Cytometer
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• Weekly hysteresis check

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