

10C Flow Cytometer

XF-1600 RUO Flow Cytometer

High Technology for
Expert Laboratories



Sysmex, a global leader in multiple disciplines including haematology, urinalysis and haemostasis and a provider of automated workflow solutions, now offers the laboratory experts a unique and innovative flow cytometry system for robust data collection.

The XF-1600 RUO Flow Cytometer integrates a multi-laser optical layout with Sysmex's proven fluidics design for reliable performance. Its stable fluidics—even at high sample acquisition rates—ensure the system is capable of rapid data collection and analysis with high sensitivity, while also providing the option of a lower sampling rate for increased measurement precision.

Exceptional performances for increased efficiency

- Flexible specimen handling
- Rapid data acquisition without loss of sensitivity
- Unique rare event analysis capability
- Intuitive software with automated QC
- Optional off-line analysis solution

Technology meets reliability

The XF-1600 RUO Flow Cytometer uses innovative technology and fluidics to provide high detection sensitivity even at high sheath velocity, for rapid data acquisition. Like any Sysmex clinical testing platforms, the XF-1600 RUO Flow Cytometer is backed by the exceptional service and reliability laboratories expect from the global leader in haematology.

37 measurable parameters simultaneously record pulse-Area, -Height and -Width data, from 12 detector channels

Linear, log and logicle plots are available for data acquisition

Complete array of quality control products with automated QC setup

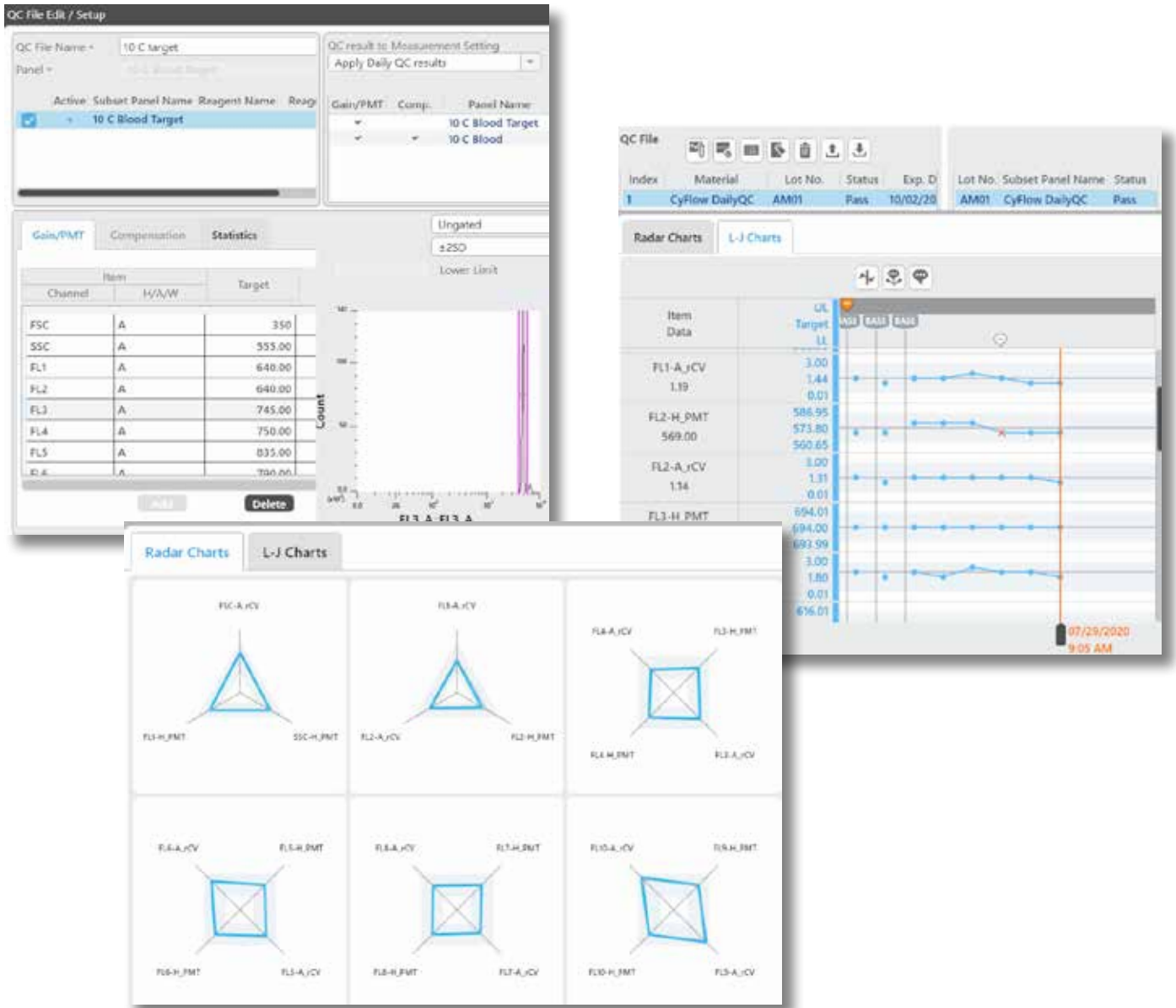
Comprehensive catalogue of CyFlow antibodies conjugated to a wide range of fluorophores

Proven Sysmex fluidics design

Automated sample preparation (if combined with the PS-10 and Hettich Rotolavit-II)

Quality data starts with reliable QC

The XF-1600 RUO Flow Cytometer uses a complete array of quality control products and is equipped to seamlessly automate standardisation of specimens, streamline quality control setup, and simplify monitoring of instrument performance. Easy-to-read radar and Levy-Jennings charts assure quality data for your flow lab.



A flexible approach to sample handling



XF-1600 RUO Flow Cytometer



XF-1600 RUO Flow Cytometer shown with Hettich 24-tube rotor

When your important specimens require special attention, the XF-1600 RUO Flow Cytometer provides unique sampling options. Single tube processing can be performed on a variety of tube sizes with selectable aspiration volumes to ensure minimal sample waste and protection against accidental sample loss. Alternatively, samples can be loaded on a universal Sysmex rotor for automated walk-away acquisition.

Seamless integration

For additional convenience, universal rotors can easily be moved between our PS-10 sample preparation system, automated cell washer/centrifuge and XF-1600 RUO Flow Cytometer. By monitoring barcodes, rotors are positively identified to ensure traceability throughout the laboratory. Automated sample preparation and controlled cell washing guarantee excellent sample viability, high cell recovery and reproducible results, instilling trust, and confidence in your data.

Highly trained operators are no longer spending hours manually pipetting, leaving their valuable time for more complex analytical activities.



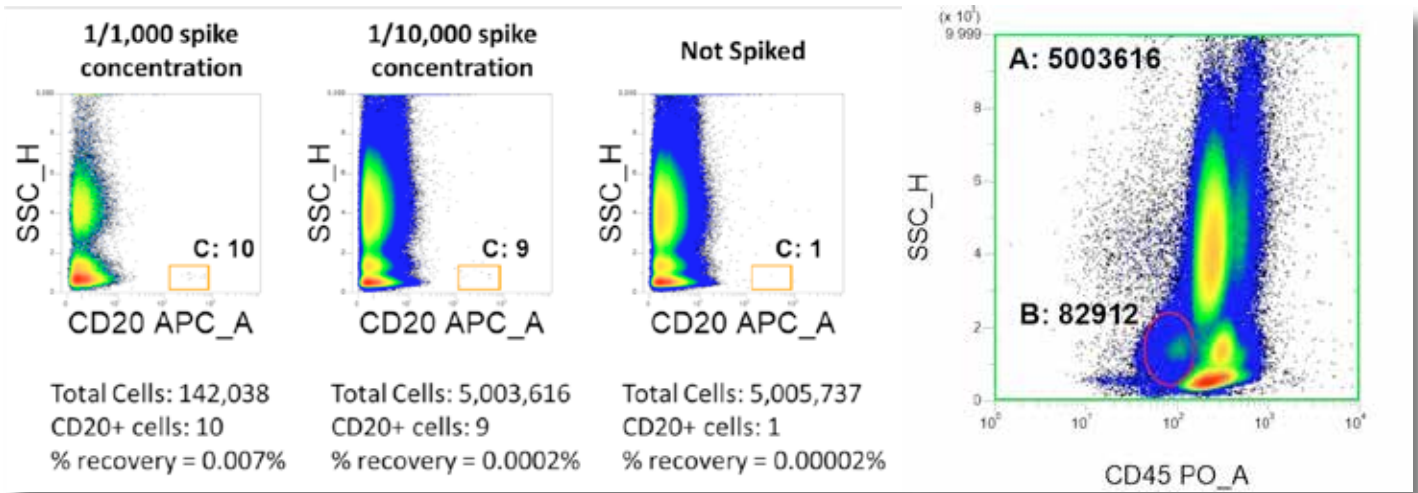
PS-10



Hettich Rotalavit-IIS + 24-tube rotor

Powerful Rare Event Mode (REM) with excellent data resolution

With the growing interest in rare event analysis, the XF-1600 RUO Flow Cytometer incorporates a Rare Event Mode (REM) based on established haematology technology. The system allows users a choice of six aspiration volumes, which utilise up to 2mL of specimen for analysis, while ensuring low carryover and a low Limit of Blank (LoB).

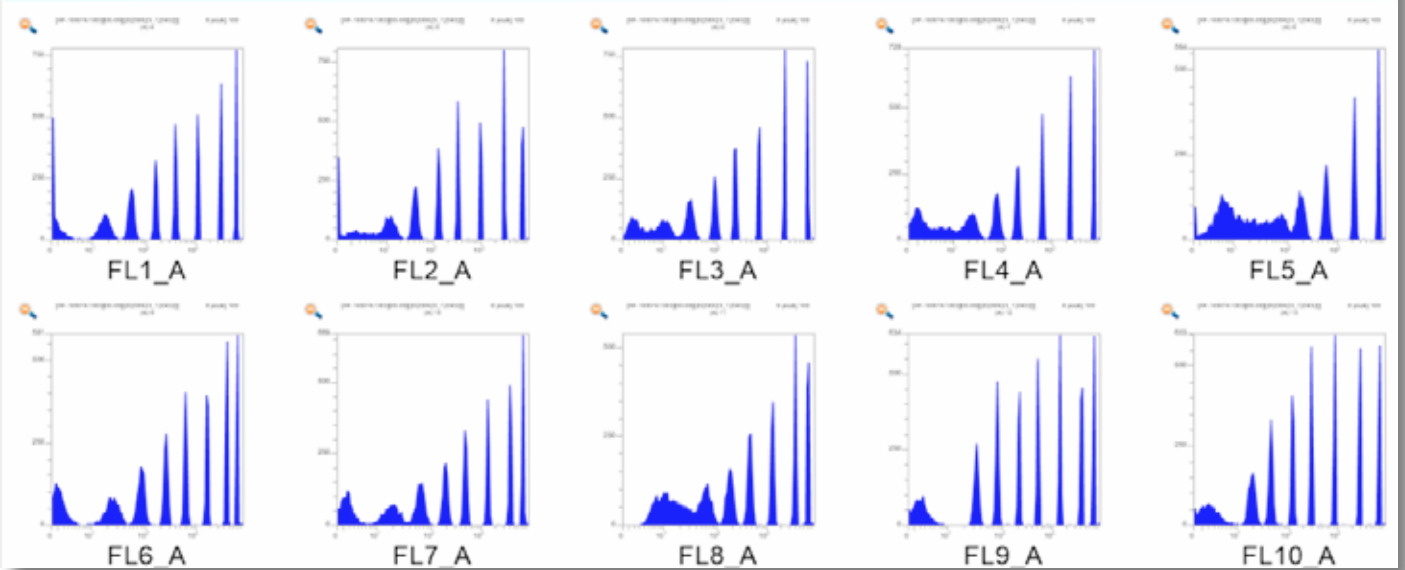


Five adjustable sample rates - from 5 µL/min to 120 µL/min – provide flexibility for all sample types, titre levels and cell concentrations. At high sheath velocity, fast data acquisition rates – up to 50,000 events per second - reduce the overall sample acquisition time while maintaining the essential sensitivity required for rare event analysis.

- ▶ Data acquisition rates up to 50,000 events per second reduce overall analysis time and provide an incredible 5 million events of robust data collection.

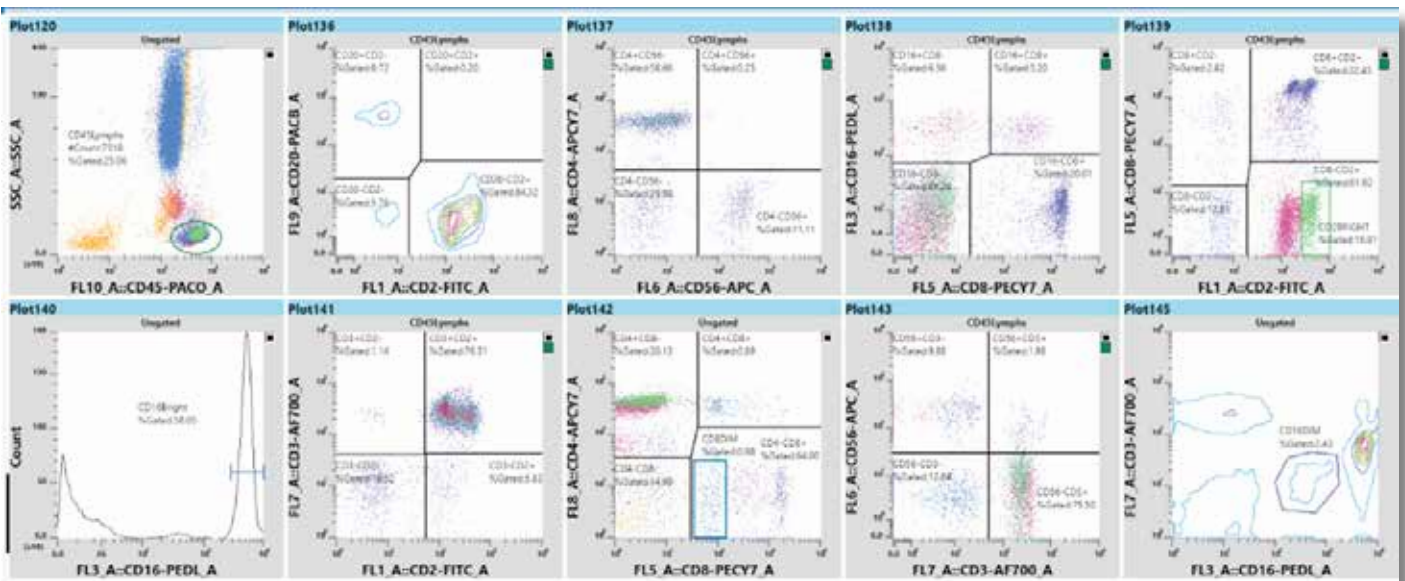


Plots - FCS_20200623120433_8_peak_high 120.fcs



Intuitive XF-1600 RUO software

With the growing interest in rare event analysis, the XF-1600 RUO Flow Cytometer incorporates a Rare Event Mode (REM) based on Sysmex's intuitive user interface is widely acknowledged as making the XF-1600 RUO Flow Cytometer easy to use for all lab staff. Users can choose from a variety of plot options including linear, log and logicle axis scaling for single or dual parameter plot types with selectable statistics.



Worklist Panel Master

Filter / Sort

Active	Status	Validate/Sort	Primary ID	Secondary ID	Subset Panel Name	Rotor Position
Measured	<input checked="" type="checkbox"/>		A1001_D8_BLOOD_8PC7	STEP2_8PC7_30IAN20	Single_Mult_PB	16
Measured	<input checked="" type="checkbox"/>		A1001_D8_BLOOD_19PERCP	STEP2_19PERCP_30IAN20	Single_Mult_PB	15
Measured	<input checked="" type="checkbox"/>		A1001_D8_BLOOD_16PEDL	STEP2_16PEDL_30IAN20	Single_Mult_PB	14
Measured	<input checked="" type="checkbox"/>		A1001_D8_BLOOD_22PE	STEP2_22PE_30IAN20	Single_Mult_PB	13
Measured	<input checked="" type="checkbox"/>		A1001_D8_BLOOD_2F	STEP2_2F_30IAN20	Single_Mult_PB	12
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_10C	STEP2_10C_30IAN20	Single_Mult_PB	11
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_45PACO	STEP2_45PACO_30IAN20	Single_Mult_PB	10
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_20PACB	STEP2_20PACB_30IAN20	Single_Mult_PB	9
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_4APCY7	STEP2_4APCY7_30IAN20	Single_Mult_PB	8
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_1AF700	STEP2_1AF700_30IAN20	Single_Mult_PB	7
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_56APC	STEP2_56APC_30IAN20	Single_Mult_PB	6
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_8PC7	STEP2_8PC7_30IAN20	Single_Mult_PB	5
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_19PERCP	STEP2_19PERCP_30IAN20	Single_Mult_PB	4
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_16PEDL	STEP2_16PEDL_30IAN20	Single_Mult_PB	3
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_22PE	STEP2_22PE_30IAN20	Single_Mult_PB	2
Measured	<input checked="" type="checkbox"/>		A1001_D7_BLOOD_2F	STEP2_2F_30IAN20	Single_Mult_PB	1
Measured	<input checked="" type="checkbox"/>		A1001_TARGET_SUPRA	TARGET_30IAN20	Scro_PMT Adjust_SUPR	
Measured	<input checked="" type="checkbox"/>		WATER	WATER	Water	
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_10C	STEP2_10C_29IAN20	Single_Mult_PB	27
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_45PACO	STEP2_45PACO_29IAN20	Single_Mult_PB	21
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_20PACB	STEP2_20PACB_29IAN20	Single_Mult_PB	23
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_4APCY7	STEP2_4APCY7_29IAN20	Single_Mult_PB	19
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_1AF700	STEP2_1AF700_29IAN20	Single_Mult_PB	18
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_56APC	STEP2_56APC_29IAN20	Single_Mult_PB	17
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_8PCY7	STEP2_8PCY7_29IAN20	Single_Mult_PB	16
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_19PERCP	STEP2_19PERCP_29IAN20	Single_Mult_PB	15
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_16PEDL	STEP2_16PEDL_29IAN20	Single_Mult_PB	14
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_22PE	STEP2_22PE_29IAN20	Single_Mult_PB	13
Measured	<input checked="" type="checkbox"/>		A1001_D6_BLOOD_2F	STEP2_2F_29IAN20	Single_Mult_PB	12
Measured	<input checked="" type="checkbox"/>		A1001_D5_BLOOD_10C	STEP2_10C_29IAN20	Single_Mult_PB	11
Measured	<input checked="" type="checkbox"/>		A1001_D5_BLOOD_45PACO	STEP2_45PACO_29IAN20	Single_Mult_PB	10
Measured	<input checked="" type="checkbox"/>		A1001_D5_BLOOD_20PACB	STEP2_20PACB_29IAN20	Single_Mult_PB	9

Channel Setting

LOGIC OR AND

Channel	Name	<input type="checkbox"/> Height	<input checked="" type="checkbox"/> Area	<input type="checkbox"/> Width	Threshold 1-2500	Gain/PMT 0-2560 / 0-1000
<input checked="" type="checkbox"/>	FSC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 2500	<input type="text" value="333"/>
<input checked="" type="checkbox"/>	SSC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="515"/>
<input type="checkbox"/>	FL1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="628"/>
<input type="checkbox"/>	FL2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="585"/>
<input type="checkbox"/>	FL3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="655"/>
<input type="checkbox"/>	FL4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="665"/>
<input type="checkbox"/>	FL5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="658"/>
<input type="checkbox"/>	FL6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="785"/>
<input type="checkbox"/>	FL7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="730"/>
<input type="checkbox"/>	FL8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="680"/>
<input type="checkbox"/>	FL9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="504"/>
<input type="checkbox"/>	FL10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="text" value="575"/>

Flow Rate High Middle Low

Volume
 Required volume select uL
 volume select

Laser 488 638 405 [nm]

Stop Setting
 Event Count Stop Condition Event Count
 Time Stop Time Seconds (5s-226s)

Disclaimer:

The XF-1600 RUO Flow Cytometer is intended for research applications only. Clinical application has not been approved or cleared by any regulatory authority. It is the user's responsibility to validate the instrument for use in clinical practice.

XF-1600 RUO Flow Cytometer is not available in all countries - please contact your local Sysmex representative for information.

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