



BD FACSPresto™

A near-patient complete CD4 testing solution



A solution as unique as you

The BD FACSPresto™ near-patient CD4 counter includes the instrument, integrated software, sample incubation work station and single-use disposable cartridges. The system is designed to provide absolute and percentage results of CD4 T lymphocytes and total hemoglobin (Hb) concentration in whole blood samples.

To fit the needs of resource-limited settings, the BD FACSPresto is small and portable, weighing just under 7 kg. It can be operated by a rechargeable battery and is designed to handle extreme environmental conditions including both temperature and humidity.

The system's unique BD FACSPresto™ cartridges are designed for use with both finger-stick samples and venous whole blood collected in EDTA tubes. The cartridges use dried-down fluorescently labeled antibodies to eliminate cold chain requirements, simplifying storage and reducing cost.

A number of features make the system easy to learn and use. The large touchscreen interface is operated using graphics, making it language-independent. Technicians simply touch the interface tabs and buttons to navigate the menus and execute desired functions. On-board videos demonstrate system operations to assist in training and use.

The BD FACSPresto incorporate many checks to ensure quality and consistency of testing, and is delivered with BD quality and backed by your BD regional team.



Setup procedure

From the Settings tab, the touchscreen interface guides the operator during setup. Customized lab parameters are entered, such as lab and operator information, time format, and reporting units for hemoglobin.



Initial setup

Self test on powerup

When the BD FACSPresto near-patient CD4 counter is first started, the system automatically performs a POST to verify system parameters and attributes. Once the test is complete, the system displays a message and prints it to indicate that the BD FACSPresto has passed all checks, including accuracy results for normal and low counts.

Settings tab for lab and operator information

The system's integrated software and an intuitive touchscreen interface simplify setup and workflow. To set customized laboratory parameters, technicians use the touchscreen interface to select the Settings tab and enter laboratory and operator information, as well as a time format. Technicians can also set reporting units for hemoglobin (grams per liter or grams per deciliter) from the Settings tab.

Integrated quality checks reduce cost

After initial setup, the instrument quality control feature automatically checks counting accuracy at the beginning of the day after the self-test and on demand. This eliminates the need for an external instrument quality control cartridge, simplifying and speeding workflow. In addition, the BD FACSPresto is technically compatible with commercially available process control and external quality assurance products for independent system performance assessment.



Touchscreen interface for ease of use

The touchscreen interface is operated using graphics to allow for easy task execution and to minimize language barriers. On-demand videos for key operations are available from the Help tab to assist with user training.

Blood collection

Ready-to-use cartridges for all tests

The BD FACSPresto system includes ready-to-use, single-use disposable cartridges that contain dried-down reagents to simultaneously identify and enumerate CD4 T lymphocytes for absolute and percentage results from whole blood samples. The cartridge also measures total hemoglobin concentration on the same sample and delivers all results concurrently.

Flexible workflow, choice of draw

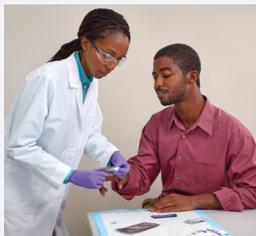
Blood is applied into the BD FACSPresto cartridge by finger-stick or venipuncture draw.

For finger-stick blood collection, the BD FACSPresto™ finger-stick collection kit comes with a lancet, bandage, alcohol swab and cotton gauze. The fingertip is punctured with the lancet, and the first drop of blood is wiped. The second drop of blood is applied into the inlet port of the cartridge. The finger is cleaned, the cartridge is capped and a bandage is applied to the finger.

For blood collected by venipuncture draw, a transfer pipet is provided to collect blood from the tube and apply it to the inlet port on the cartridge. No manual sample preparation is required for either collection method, saving time.

Blood and reagent mix

Once the blood is applied and the cartridge is capped, the blood picks up the dried reagent and flows along a channel inside the cartridge. At the end of the channel, a fill indicator ensures that the blood has properly flowed along the entire channel to its endpoint.





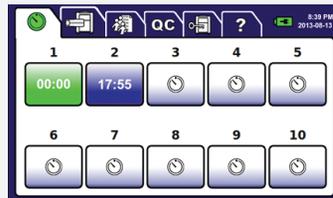
Incubation

Incubation outside the device increases throughput

The operator places the BD FACSPresto cartridge on the work station outside the instrument for incubation. The on-board timer automatically counts down a preset incubation time of 18 minutes. Since incubation occurs outside the device, at room temperature, technicians gain greater flexibility.

Convenient on-board incubation timer

When the incubation is complete, the timer graphic turns green and, if desired, an alarm sounds to indicate that the cartridge is ready to be processed.





Sample run and results

Tear-strip protects viewing channel to maximize accuracy

After incubation, the operator removes the tear-strip that protects the viewing channel from dust and dirt, selects the Run Test tab, and enters the patient number that corresponds with the BD FACSPresto cartridge. After a second patient ID verification step, the door opens for the cartridge to be placed into the instrument.

Automated quality control and testing

A sensor inside the instrument detects the cartridge and draws it in, and the door closes. This automatically starts the reading process. The on-board reagent quality control feature verifies that reagent and a sufficient amount of blood are present in the cartridge.

Status bar and notifications track status

When testing is complete, between 3 to 4 minutes later, an audible tone sounds and the door opens to eject the cartridge. Since cartridges with samples are incubated outside the instrument, an operator can run up to 60 tests in an 8-hour day.

Results on screen, printed or exported

BD FACSPresto results can be exported to a USB flash drive to upload to a Laboratory Information System.





		QC	?	6:33 PM 2013-10-13
2012-04-29		2013-10-13		
#	#	DATE	TIME	IN
▲	FACSPrestoQC	2012-10-11 04:04 PM	791	2370
	FACSPrestoQC	2012-10-11 01:03 PM	792	2370
	FACSPrestoQC	2012-10-11 02:02 PM	791	2370
5	FACSPrestoQC	2012-10-11 12:06 PM	791	2370
22	FACSPrestoQC	2012-04-29 10:51 PM	790	2370
	FACSPrestoQC	2012-04-29 10:51 PM	792	2370
	FACSPrestoQC	2012-04-29 10:51 PM	791	2370
	FACSPrestoQC	2012-04-29 10:51 PM	791	2370
	FACSPrestoQC	2012-04-29 10:51 PM	791	2370

Training and support

On-board videos guide use

To help technicians come up to speed quickly, or to refresh technicians on proper procedures, the BD FACSPresto near-patient CD4 counter has on-board videos that illustrate all workflow steps.

Workshops train laboratory personnel

In addition, BD Good StartSM workshops are recommended to train laboratory personnel to reliably use diagnostic and monitoring tools following standard operating guidelines. Workshops seek to improve healthcare capacity and laboratory procedures in the countries they serve.

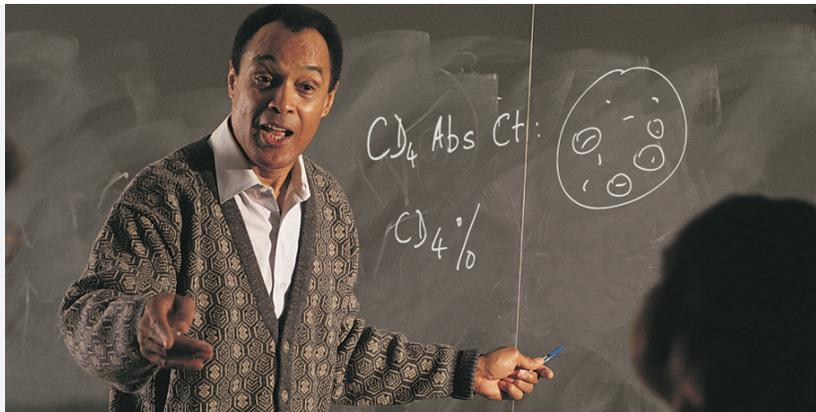
Instructor-led, practical hands-on training

BD Good Start workshops feature instructor-led training followed by practical hands-on use of BD instruments and products including the BD FACSPresto. In addition to on-site training, train-the-trainer workshops aim to promote sustainability of healthcare capacity by teaching training skills alongside technical content.

Designed for remote locations

The BD FACSPresto is designed to fit the needs of operation at remote locations and resource-limited settings. Self-diagnosis at power on and sophisticated reagent quality control systems ensure that the system is working within specified parameters.

BD Good Start workshops





No routine maintenance

No preventive or routine maintenance is required for daily operation in the field. However, if a problem is encountered, a local resource can be contacted to arrange for a replacement instrument.

BD regional support

BD people are never far away to help support you. Our proven track record of dependability and supply chain excellence is one way we have demonstrated our commitment to your success and satisfaction.



For In Vitro Diagnostic Use.

23-16115-01

BD Biosciences, San Jose, CA 95131 USA

Office locations are available on our websites.

bdbiosciences.com

