

February, 2017

HLA-B27 SOP 5: Analysis of Data Acquired on the BD FACSCanto™ II Cytometer

Purpose

To analyze and review the data acquired on the BD FACSCanto™ II flow cytometer.

Scope

This procedure applies to the clinical laboratory environment with the BD FACSCanto II flow cytometer for the purpose of detecting the HLA-B27 antigen using whole blood specimens. We recommend that all personnel who operate the instrument be sufficiently trained to fully perform and implement this guideline.

Equipment Required

BD FACSCanto II workstation

Materials Required

Biohazard safety manual


Biohazard sharps waste container

Personal protective equipment (PPE)

- Protective gloves
- Protective eyewear
- Closed-toe shoes
- Lab coat


Completed worklist or data files

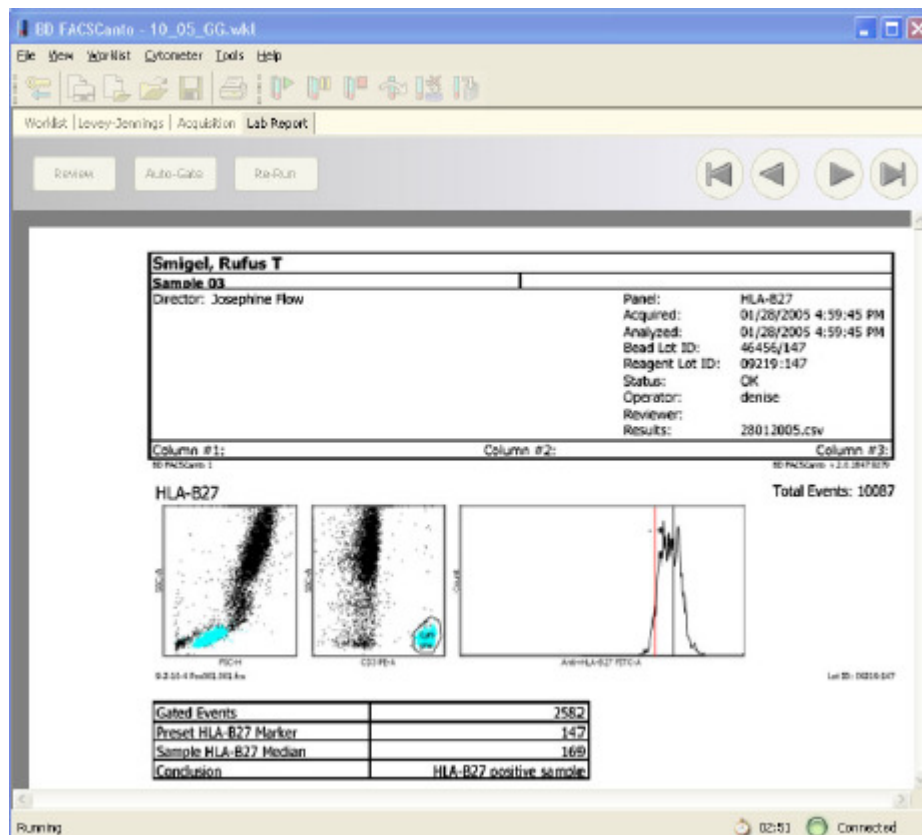
Procedure

1. If BD FACSCanto™ clinical software is closed, start the software and log in with the appropriate user name and password.
2. Wait for the cytometer to connect to the software.
3. To analyze data within a worklist (note: if samples have just finished running, this step might be unnecessary):
 - a. Select **File > Open Worklist**.
 - b. Navigate to the worklist containing data to be analyzed and click **Open**.
4. To analyze data from multiple days:
 - a. Select **File > New Analysis Worklist**.
 - b. Click **Add Data Files from Directory**. 
 - c. Navigate to the folder containing the data files.

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- d. Click **Open**.
5. To analyze individual data files:
 - a. Select **File > New Analysis Worklist**.
 - b. Click **Add Data File**. 
 - c. Navigate to the folder containing the data files and select the files to be analyzed.
 - d. Click **Open**.
6. Double-click in the **Status** column for the first sample to open the laboratory report.

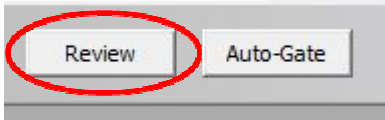


7. Inspect the plots for expected patterns. If the T-cell gate is not around the T-lymphocyte (CD3⁺) population, click the border of the gate and drag it to the T lymphocytes as shown above.
8. Look at the QC messages at the end of the report to ensure validity.

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9. Click the **Review** button, select **Current User** or **Other User**, and enter your password.



10. Click the right arrow to continue to the next sample.



11. Repeat steps 7 through 10 for each additional sample.
12. Once all samples have been analyzed, select **File > Save** to save changes to the worklist.
13. If using an analysis worklist, select **File > Save As** and enter a name for the analysis worklist.
14. Click **Save**.
15. Select **File > Print all Lab Reports**, if needed.

References

BD FACSCanto™ II Instructions for Use, document 23-12882-01.

BD FACSCanto™ Clinical Software Reference Manual, document 23-14529-00.

BD HLA-B27 Application Guide for BD FACSCanto Flow Cytometers, document 343366 Rev. A.

BD™ HLA-B27 Kit technical data sheet, document 23-2563-13, available at www.bdbiosciences.com.

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