BD HLA-B27 System

**Features**

- Qualitative two-color direct immunofluorescence method for the rapid detection of HLA-B27 antigen in erythrocyte-lysed whole blood
- Complete, turnkey system for use with the BD FACSCanto™ II and BD FACSCalibur™ flow cytometers
- Powerful software simplifies setup, data acquisition, analysis, and reporting as well as quality assurance tracking and reporting
- Cleared for in vitro diagnostic use

The BD™ HLA-B27 system integrates high-quality reagents, proven BD flow cytometers, and powerful software to provide a complete solution for the rapid detection of HLA-B27 antigen expression in whole blood samples. HLA-B27 is a major histocompatibility complex (MHC) class I molecule. MHC class I molecules are cell-surface glycoproteins that are expressed in most nucleated human cells and platelets.\(^1\)

The presence of HLA-B27 antigen is strongly associated with ankylosing spondylitis (AS), a chronic inflammatory disease of the axial musculoskeletal system, and a few other rheumatic disorders (Reiter’s syndrome, acute anterior uveitis, and inflammatory bowel disease).\(^2\) HLA-B27 testing is routinely used to screen for AS since 90% of patients with AS have the HLA-B27 surface antigen compared to only 8% of healthy individuals.

**A complete solution for the rapid detection of HLA-B27 antigen by flow cytometry**

The BD HLA-B27 system includes reagents and easy-to-use software for instrument setup, data acquisition, and analysis of whole blood samples using BD FACS™ flow cytometers. The assay is compatible with the BD FACSTM Loader Option, providing the advantage of walkaway operation and improving laboratory efficiency.

**Powerful software enhances productivity, every step of the way**

Assay setup is simple. Using the BD FACSCanto flow cytometer, assay setup is performed with the appropriate setup beads and the BD HLA-B27 Application Module for BD FACSCanto clinical software. The software automatically analyzes the sample and generates a laboratory report showing analysis details and whether the sample is positive or negative for the HLA-B27 antigen.

The software also monitors instrument performance, ensuring reproducible results. Instrument settings and performance data can be saved automatically and used to generate Levey-Jennings plots, saving time and labor in tracking and reporting instrument performance.

BD HLA-B27 software is also available for Mac OS® X operating system.

**Lot-specific decision marker adds confidence to results**

The BD HLA-B27 system includes a lot-specific decision marker for each lot of antibody reagent. During analysis, the software compares the fluorescence intensity of T lymphocytes stained with anti–HLA-B27 FITC to the decision marker to provide accurate, fast, and reproducible results.

**Cleared for in vitro diagnostic use**

The BD HLA-B27 system is cleared for in vitro diagnostic use and is CE marked according to the European Directive for In Vitro Diagnostic Medical Devices (IVDD 98/79/EC) responding to laboratory requirements.

Visit [bdbiosciences.com](http://bdbiosciences.com) for more information.
BD HLA-B27 System

References

Ordering Information

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<th>Product Description</th>
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<td>BD HLA-B27 Application Module v1.0 for BD FACSCanto™ Clinical Software</td>
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<td>BD HLA-B27 v5.0 Software for BD FACSCalibur (Mac OS X systems)</td>
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