

# 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



BD HLA-B27 system

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.<sup>1</sup>

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).<sup>2</sup> 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 FACSTM 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.



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## References

1. Dausset J. The major histocompatibility complex in man. Past, present, and future concepts. *Science*. 1981;213:1469-1474.
2. Lopez-Larrea C, Gonzalez-Roces S, Alvarez V. HLA-B27 structure, function, and disease association. *Curr Opin Rheumatol*. 1996;8:296-308.

## Ordering Information

Product Description	Quantity	Cat. No.
BD HLA-B27 Reagent Kit	50 tests	340183
BD HLA-B27 Application Module v1.0 for BD FACSCanto™ Clinical Software		640775
BD HLA-B27 v5.0 Software for BD FACSCalibur (Mac OS X systems)		643438

