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**Lab Dept:** Chemistry

**Test Name:** HLA-B27

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***General Information***

**Lab Order Codes:** B27

**Synonyms:** HLA-B27, blood

**CPT Codes:** 86812 – HLA typing; A, B, or C, single antigen

**Test Includes:** HLA-B27 interpretive report will be provided.

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***Logistics***

**Test Indications:** **Not** for leukemia patient HLA testing.  
Useful in assisting in the diagnostic process of ankylosing spondylitis, juvenile rheumatoid arthritis and Reiter's syndrome.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: LY27B)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 - 6 days, test set up: Monday - Saturday

**Special Instructions:** Specimens must arrive at Mayo within 96 hours of collection.

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***Specimen***

**Specimen Type:** Whole blood

**Container:** Lavender top (EDTA) tube

**Draw Volume:** 6 mL (Minimum: 1 mL) blood

**Processed Volume:** Same as Draw Volume

**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: **Do Not** centrifuge. **Do Not** transfer blood to other containers. This test requires adequate numbers of viable lymphocytes which are more likely to be present in fresher specimens. **Do Not** refrigerate. Keep specimen at room temperature. Ship at room temperature. Forward promptly. Must arrive at Mayo within 96 hours of collection.

**Patient Preparation:** None

**Sample Rejection:** Specimens other than whole blood; anticoagulants other than EDTA refrigerated or frozen specimens; mislabeled or unlabeled specimens

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### ***Interpretive***

**Reference Range:** No established reference ranges. An interpretive report will be provided.

**Interpretation:** Approximately 8% of the normal population carries the HLA-B27 antigen. HLA-B27 is present in approximately 89% of patients with ankylosing spondylitis, 79% of patients with Reiter's syndrome, and 42% of patients with juvenile rheumatoid arthritis. However, lacking other data, it is not diagnostic for these disorders.

**Critical Values:** N/A

**Limitations:** Extreme temperature changes which may occur during shipping of whole blood for the performance of this test can result in the lymphocytes becoming non-viable.

Not diagnostic for ankylosing spondylitis, juvenile rheumatoid arthritis, and Reiter's syndrome without other data.

**Methodology:** Flow Cytometry

**References:** [Mayo Medical Laboratories](#) November 2017

**Updates:** 9/16/2010: Tube type requirement change to EDTA, previously listed as ACD Yellow Solution B.  
1/16/2012: Preferred volume previously listed as 7 mL.  
11/6/2017: Updated stability from 72 to 96 hrs.