
Lab Dept: Chemistry

Test Name: HLA-B27

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.

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: 9648/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 72 hours of collection.

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 72 hours of collection.
Patient Preparation:	None
Sample Rejection:	Specimens other than whole blood; anticoagulants other than EDTA refrigerated or frozen specimens; mild or gross hemolysis; mislabeled or unlabeled specimens

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](#) January 2012

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.