
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: 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.

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

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.