Test Definition: ABYSR

Antibody Screen, RBC

Overview

Useful For

Detection of allo- or autoantibodies directed against red blood cell antigens in the settings of pretransfusion testing

Evaluation of transfusion reactions

Evaluation of hemolytic anemia

Reflex Tests

Test ID	Reporting Name	Available Separately	Always Performed
ABIDR	Antibody Identification, RBC	Yes	No
ABTIR	Antibody Titer, RBC	Yes	No

Testing Algorithm

If the antibody screen is positive, then antibody identification will be performed.

If the patient has a history of antibodies that are still detected, the antibody screen will be canceled and replaced by the antibody identification.

If certain antibodies are detected and the patient is known to be pregnant, an antibody titration will be performed.

Method Name

Hemagglutination

NY State Available

Yes

Specimen

Specimen Type

Whole Blood EDTA

Shipping Instructions

Specimen must arrive within 72 hours of draw.

Specimen Required

Container/Tube: Pink (EDTA)

Specimen Volume:6 mL

Collection Instructions: Send specimen in original tube.

Forms

If not ordering electronically, complete, print, and send a Benign Hematology Test Request Form (T755) with the

specimen.

Specimen Minimum Volume

3 mL

Reject Due To

Gross hemolysis	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Refrigerated (preferred)	4 days	
	Ambient	4 days	

Clinical and Interpretive

Clinical Information

Transfusion and pregnancy are the primary means of sensitization to red cell antigens. In a given population, 2% to 4% of the general population possess irregular red cell alloantibodies. Such antibodies may cause hemolytic disease of the newborn or hemolysis of transfused donor red blood cells.

Reference Values

Negative

If positive, antibody identification will be performed.

Interpretation

A positive result (antibody detected) necessitates antibody identification to establish the specificity and clinical significance of the antibody detected.

Alloantibodies detected on pregnant Mayo Clinic-Rochester patients will be evaluated for the allo-antibody titer. If antibody reacts strongly, the titre test will be performed.

Negative results indicate no antibody was detected.

Cautions

Clinical evaluation of antibodies identified is necessary to determine their potential for harm to the patient at this time and to assess appropriate action to be taken in the future.

Clinical Reference

AABB Technical Manual. 19th edition. Edited by MK Fung, AF Eder, SL Spitalnik, CM Westhoff: AABB 2017

Performance

Method Description

Three type O erythrocytes with known expression of common antigenic determinants are utilized. Serum containing

antibodies directed against these antigens will cause agglutination or hemolysis of the test cells. Antiglobulin phases of testing provide optimal conditions for detection of most clinically significant antibodies. If the antibody screen is positive, then antibody identification is performed.(AABB Technical Manual. 19th edition. Edited by MK Fung, AF Eder, SL Spitalnik, CM Westhoff: AABB 2017)

PDF Report

No

Day(s) and Time(s) Test Performed

Monday through Friday, Sunday; Continuously

Analytic Time

Same day/1 day

Maximum Laboratory Time

2 days

Specimen Retention Time

14 days

Performing Laboratory Location

Rochester

Fees and Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact Customer Service.

Test Classification

This test has been cleared, approved or is exempt by the U.S. Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

CPT Code Information

86850

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
ABYSR	Antibody Screen, RBC	890-4

Result ID	Test Result Name	Result LOINC Value
ABYSR	Antibody Screen, RBC	890-4