MAYO CLINIC LABORATORIES

Test Definition: DCTR

Direct Antiglobulin Test (Polyspecific), Blood

Overview

Useful For

Demonstrating in vivo coating of red blood cells with IgG or the complement component C3d in the following settings:
-Autoimmune hemolytic anemia
-Hemolytic transfusion reactions
-Drug-induced hemolytic anemia

Reflex Tests

Test Id	Reporting Name	Available Separately	Always Performed
DATR	Direct Antiglobulin Tst (Poly)	No	No
DC3TR	Direct Antiglobulin Test (C3)	No	No
DIGTR	Direct Antiglobulin Test (IgG)	No	No

Testing Algorithm

When test's result (performed via gel method) is positive or the specimen is 24 to 48 hours old, the this test will be interpreted as "See additional testing" and the tube method polyspecific DAT test will be performed at an additional charge.

When the tube method polyspecific DAT result is positive, then the DAT complement (C3) and DAT IgG tests will be performed at an additional charge.

Method Name

Gel Method Hemagglutination

NY State Available

No

Specimen

Specimen Type

Whole Blood EDTA

Shipping Instructions

Specimen must arrive within 48 hours of collection.

Specimen Required

Container/Tube: Pink top (EDTA)
Specimen Volume: 6 mL
Collection Instructions:
1. Invert several times to mix blood.
2. Send whole blood specimen in original tube. **Do not aliquot.**

Specimen Minimum Volume
3 mL; Neonates: EDTA Micro tube 0.5 mL

Reject Due To

Gross hemolysis	OK

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Ambient (preferred)	48 hours	
	Refrigerated	48 hours	

Clinical & Interpretive

Clinical Information
IgG antibody or complement components secondary to the action of IgM antibody may be present on the patient's own red blood cells (RBC) or on transfused RBC.

Reference Values
Negative

Interpretation
Negative: No IgG antibody or complement (C3d) detected on the surface of the red cell.
Positive: Test polyspecific direct antiglobulin testing will be ordered and performed.

Cautions
Autoimmune hemolytic anemia can occasionally occur with a negative direct antiglobulin test.

The direct antiglobulin test can be positive in some apparently healthy individuals.

Clinical Reference
Cohn CS, Delaney DO, Johnson ST, Katz LM, Schwartz J, eds. Technical Manual. 21st ed. AABB; 2023

Performance

Method Description
Antihuman globulin reacts with red cell-bound immunoglobulins to produce agglutination.(Cohn CS, Delaney M, Johnson ST, Katz LM, Schwartz J, eds. Technical Manual. 21st ed. AABB; 2023)

PDF Report
No

Day(s) Performed
Monday through Sunday

Report Available
Same day/1 to 2 days

Specimen Retention Time
14 days

Performing Laboratory Location
Mayo Clinic Laboratories - Rochester Main Campus

Fees & 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 account representative. For assistance, contact Customer Service.

Test Classification
This test has been cleared, approved, or is exempt by the US 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
86880

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
DCTR	Direct Antiglobulin Test (Poly)	1007-4

Result ID	Test Result Name	Result LOINC® Value
DCTR	Direct Antiglobulin Test (Poly)	1007-4