

C1R

Orderable – C1R

Turnaround Time: 40 days

Specimen:

Adult	Pediatric
4 mL Lavender top (EDTA) Vacutainer tube	0-2 years: 3 x 0.5 mL Lavender or Pink top (EDTA) Microtainers 2-10 years: 3 mL Lavender top (EDTA) Vacutainer tube



Laboratory:
Clinical Immunology Lab



Requisition:
[National Jewish Hospital Complement Testing Requisition](#)



Method of Analysis:
Radial Immunodiffusion (RID)

CH50 will be measured first to determine if the C1r test is indicated. Therefore, both EDTA plasma (for C1r testing) collected as in the chart above and serum (for CH50 testing) as collected in the chart below are required.

Adult	Pediatric
5 mL Gold top Vacutainer tube	0-2 years: 2 x 0.5 mL Red or Gold top Microtainers 2-10 years: 3 mL Red top Vacutainer tube



Test Schedule:
Referred out monthly. Total complement CH50 is performed as a screen to determine if the component assay is required.

Collection Information:

Minimum volume of EDTA plasma required is 250 µL.

Testing for CH50 (total complement, TCOMP) will be performed first to determine if the C1r test is indicated. The minimum volume of serum required for CH50 testing is 500 µL.

Reference Ranges:

C1r level:	61-162 % of STD
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Referred To:
National Jewish Medical and Research Center
1400 Jackson St.,
Denver, Colorado
80206

Interpretive Comments:

This test quantifies the C1r protein level. It does not evaluate the function of C1r.

This test does NOT include C1 esterase inhibitor or C1 esterase inhibitor functional assay. Order these tests separately. See Lab Test Information Guide entry for C1IN.



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Total complement (TCOMP, CH50) is a screen for classical pathway function.

Special Processing:

Centrifuge lavender or pink (EDTA) tube(s) at room temperature as soon as possible after collection. Prepare aliquot of at least 250 μ L for the C1r test. If there is sufficient volume, please prepare an extra an extra aliquot of at least 250 μ L for the C1r test.

Centrifuge gold or red top tube(s) at room temperature following clotting. Prepare serum aliquot of at least 500 μ L for the CH50 test.

Freeze aliquot tubes as rapidly as possible. Send all frozen aliquots (up to 2 aliquots of EDTA plasma for C1r testing and 1 aliquot of serum for CH50 testing) and the National Jewish Hospital requisition form to Immunology Lab.

Comments:

This test is available exclusively to SJHC/LHSC physicians.

Total complement (CH50) is assayed first to determine if C1r testing is necessary. If the CH50 level is within the normal range, C1r testing will not be performed.

Storage and Shipment:

Store and ship EDTA plasma and serum frozen.