

C1QRS, SERUM

Orderable – C1QRS

Turnaround Time: 40 days

Alternate Name(s):

C1qrs components
C1q
C1r
C1s
C1 complement component group test
C1qrs levels

Specimen:

Adult	Pediatric
5 mL Gold top Vacutainer tube or 6 mL Red top Vacutainer tube and a 5 mL Lavender top (EDTA plasma)	0-2 years: Red 0.5 Microtainer and Purple 0.5 Microtainer 2-10 years: 2 mL Red and Purple top
Both plasma and serum are required	

Collection Information:

C1qrs is a group test comprised of C1q, C1r, C1s.

C1r can be ordered individually – test code C1R.
C1s can be ordered individually – test code C1S.
C1q can be ordered individually – test code C1Q.
See interpretive comments.

Request CH50 (TCOM) on the same sample.
Record collection time.
Send the sample to the laboratory ASAP.
Mix lavender tube well after procurement.
Minimum plasma volume is 2 mL divided into 2 aliquots

Reference Ranges:

C1q level:	83-125 mg/L
C1r level:	61-162 % of STD
C1s level	59-297 % of STD



Laboratory:
Clinical Immunology Lab



Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Radial Immunodiffusion
(RID)



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



Referred To:
Components are referred
to:
National Jewish Medical
and Research Center
1400 Jackson St.,
Denver, Colorado
80206

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Interpretive Comments:

The group test C1qrs includes C1q, C1r, C1s protein quantitation. It does not evaluate function.

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.

Both low C1IN levels, C1IN function and decreased C1q protein concentration are associated with acquired angioedema.

The component C1q test does NOT evaluate circulating immune complexes (IC).

Total complement (TCOM, CH50) is a screen for classical pathway function. The component assay is a quantitative evaluation of the concentration of each component but does not evaluate the functional activity of the component.

See also CCOMP.G.

Special Processing:

Centrifuge lavender tube (plasma) at room temperature as soon as possible after collection. Aliquot the plasma into 2 storage tubes and freeze as rapidly as possible. Allow the filled red top tube to clot at 22-37° for 30-60 minutes. Centrifuge at room temperature. Aliquot into storage tube and freeze as soon as possible. Store at -20°C (preferably -70°C).

Aliquots:

For CH50: 1 Aliquot (serum)

For C1qrs: 2 Aliquots (plasma)

Comments:

This test is available exclusively to SJHC/LHSC physicians.

C1QRS is a group test that includes C1q, C1r, and C1s.
Also order TCOM (CH50).

Total complement is assayed first to determine if the components evaluation is necessary. If the total complement is within the normal range, the component(s) is resulted as "not indicated".

Storage and Shipment:

LHSC (SRA to Immunology Laboratory) – Ship frozen on ice packs. Avoid freeze/thaw cycles.