

C7, SERUM

Orderable – C7

Turnaround Time: 40 days

Alternate Name(s):

C7 complement component level
C7 Level
C7L

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:

Request CH50 (TCOM) on the same sample.
Record collection time.
Mix the lavender tube well after procurement.
Send the sample to the laboratory ASAP.
Minimum serum volume is 0.5 mL per aliquot

Reference Ranges:

35.3-96.5 mg/L

Interpretive Comments:

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.

Special Processing:



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 the
component assay is
required.



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



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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°C for 30-60 minutes. Centrifuge at room temperature. Aliquot into storage tube and freeze as soon as possible. Store at -20°C (preferably -7°C).

Aliquots:

For CH50-1 Aliquot (serum)

For C6-2 Aliquots (plasma)

Comments:

This test is available exclusively to SJHC/LHSC physicians.

Total complement is assayed first to determine if the components evaluation is necessary. Only if the total complement is less than the lower limit of normal will the complement component be processed. Otherwise the component(s) is cancelled with the Comment: "Test not indicated."

Storage and Shipment:

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

Specimen Stability:

Frozen at -70°C: 1 year