

COMPLEMENT
C3,
PLASMA

Orderable - C₃ / C₃C₄

Turn Around Time: 4 hours

Alternate Name(s):

C3c

Specimen:

Adult	Pediatric
4.5 mL Green (Lithium Heparin) top Vacutainer	0-2 years: 0.5 mL Light Green top (Li-Heparin) Microtainer 2-10 years: 3 mL Light Green top (Li-Heparin) Vacutainer tube
Serum from a 5 mL Gold top or 6 mL Red top is also acceptable.	

Collection Information:

Fasting specimen preferred.

Collect blood aseptically in a Vacutainer tube.

Avoid hemolysis

Reference Ranges:

0.90-1.80 g/L

Interpretive Comments:

This test quantitates the amount of C3c in the serum but does not test C3 function. Decreased levels are associated with complement activation of either/both classical and alternative pathway(s), or genetic deficiency.

Major clinical manifestations include SLE, glomerulonephritis, pyogenic infections.



Laboratory:
Core Lab




Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Immunoturbidimetric
assay



Test Schedule:
Daily



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Comments:

C3 is normally run in conjunction with C4

Fresh samples have lower C3c than stored samples as C3 breaks down to C3c.

Turbidimetric assays not suitable for measurement of highly lipemic or hemolytic samples or samples containing high levels of circulating immune complexes.