
Lab Dept: Chemistry

Test Name: C2 COMPLEMENT, FUNCTIONAL, WITH REFLEX

General Information

Lab Order Codes: CC2

Synonyms: C2 Complement Component, Function, S; C2 (Second Component of Complement), Functional, Serum; C2

CPT Codes: 86161 – Complement; functional activity, each component
86160 x 2 (if appropriate)

Test Includes: C2 Function Complement Component reported in U/mL. Reflex to C3 and C4, if appropriate, will be performed for an additional charge.

Logistics

Test Indications: Useful for the investigation of a patient with a low (absent) hemolytic complement.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Clinic Laboratories (MML Test: C2)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 3 days, test set up Monday - Friday

Special Instructions: See [Patient Preparation](#)

Specimen

Specimen Type: Blood

Container: Red/gold top SST (preferred) or Red top no gel tube **ON WET ICE**

Draw Volume: 3 mL (Minimum: 1.5 mL) blood

Processed Volume: 1 mL (Minimum: 0.5 mL) serum

Collection:	Routine venipuncture, place specimen immediately on wet ice and send to the lab.
Special Processing:	Lab Staff: Centrifuge specimen at 4°C if possible, then IMMEDIATELY remove serum aliquot into a screw-capped round bottom plastic vial and freeze. Store and ship at frozen temperatures. Forward promptly. Specimen stable frozen for 21 days.
Patient Preparation:	Fasting preferred but not required
Sample Rejection:	Specimens other than serum; warm specimens; lipemia; mislabeled or unlabeled specimens

Interpretive

Reference Range:	25 - 47 U/mL
Critical Values:	N/A
Limitations:	Absent (or low) C2 functional levels in the presence of normal C2 antigen levels should be replicated with a new serum specimen to confirm that C2 inactivation has not occurred during shipping.
Methodology:	Automated Liposome Lysis Assay
References:	Mayo Clinic Laboratories January 2025
Updates:	5/22/2008: Removed reflex for below reference range C2 results to C3 and C4 with custom Mayo coding. Children's performs these internally. 11/6/2017: Updated draw container and processing/storage 1/31/2025: Added SST as acceptable container and specimen stability. Clarified processing requirements. Updated display name to match Mayo's title and reflect the reflex testing algorithm. Added reflex CPT code.