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**Lab Dept:** Chemistry

**Test Name:** C2 FUNCTION

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***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

**Test Includes:** C2 Function Complement Component reported in U/mL.

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***Logistics***

**Test Indications:** Useful for the investigation of a patient with a low (absent) hemolytic complement (CH50).

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: C2)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 - 2 days, test set up Monday - Saturday

**Special Instructions:** See [Patient Preparation](#)

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***Specimen***

**Specimen Type:** Blood

**Container:** Red NO GEL tube

**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.

<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, remove serum aliquot from clot and place in a plastic vial, freeze immediately. Store and ship at frozen temperatures. Forward promptly.
<b>Patient Preparation:</b>	Patient should be fasting
<b>Sample Rejection:</b>	Specimens other than serum; warm specimens; lipemia; mislabeled or unlabeled specimens

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### ***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.

If requested not to reflex low C2 result specimens for C3 and C4 testing, the following comment will be reported; "C2 result is decreased. This could be a result of an inherited C2 deficiency, complement consumption or C1 esterase inhibitor or deficiency. Analysis of C3 and C4 would be required for further interpretation."

**Methodology:** C2H50 Automated Liposome Lysis Assay

**References:** [Mayo Medical Laboratories Web Page](#) (November 2017)

**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