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**Lab Dept:** Chemistry

**Test Name:** C1 ESTERASE INHIBITOR ANTIGEN

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***General Information***

**Lab Order Codes:** C1E

**Synonyms:** C1 Esterase Inhibitor Quantitative, Plasma; Hereditary Angioedema Panel; C1 Inhibitor Level

**CPT Codes:** 83883 – Nephelometry, each analyte not elsewhere specified

**Test Includes:** C1 Esterase Inhibitor Antigen level reported in mg/dL.

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***Logistics***

**Test Indications:** Useful for diagnosis of hereditary angioedema and for monitoring levels of C1 esterase inhibitor in response to therapy.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: C1ES)

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

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

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

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***Specimen***

**Specimen Type:** Blood

**Container:** Red top tube

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

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

**Collection:** Routine venipuncture

<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, remove serum aliquot. Store and ship at frozen temperatures. Forward promptly.
<b>Patient Preparation:</b>	Fasting (12 hour preferred) specimens preferred, but not required.
<b>Sample Rejection:</b>	Specimens other than serum; gross lipemia; warm specimens. mislabeled or unlabeled specimens

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### ***Interpretive***

**Reference Range:** 19 - 37 mg/dL

**Critical Values:** N/A

**Limitations:** Quantitation of specific proteins by nephelometric means may not be possible in lipemic sera due to the extreme light scattering properties of the specimen. Turbidity and particles in the specimen may result in extraneous light scattering signals, resulting in variable specimen analysis.

**Methodology:** Nephelometry

**References:** [Mayo Medical Laboratories Web Page](#) (August 2013)

**Updates:** 1/28/2016: CPT update