
Lab Dept: Chemistry

Test Name: C1 ESTERASE INHIBITOR ANTIGEN

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.

Logistics

Test Indications: Useful for diagnosis of hereditary angiodema 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](#)

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

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

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

Collection: Routine venipuncture

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

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](#) December 2017

Updates: 1/28/2016: CPT update
12/12/2017: Collection container update.