



C1-Inhibitor Plus

For *In Vitro* Diagnostic Use

The MicroVue C1-Inhibitor Plus EIA provides quantitative measurement of functional C1-Inhibitor protein in experimental samples.

C1-Inhibitor is a multi-specific protease inhibitor present in human plasma and serum. Among the proteins it regulates are C1 and C1r of the C1 complement complex. Genetic deficiencies of C1-Inhibitor are of two types: functional deficiencies (protein is present but not functional) and antigen deficiencies (protein not present, or more commonly present at a low level). Either of these may lead to life threatening angioedema (HAE).

Format

- ELISA
- 96-well assay plate
- Sample type: Serum, EDTA plasma
- Controls: Normal, abnormal included

Species Reactivity

- Rhesus Macaque, Baboon, Human
- No reactivity with Cow, Chicken, Goat, Mouse, Rabbit, Rat, Sheep, Guinea Pig

Specimen

- Serum or EDTA plasma samples collected to avoid hemolysis

Assay Steps

- Dilute Wash Buffer; reconstitute Standards, Controls and C1-Inhibitor Reactant
- Dilute samples 1:101
- Pipette 100 μ L of Standards, Controls and diluted samples into micro-tubes.
- Add 20 μ L C1-Inhibitor Reactant into micro-tubes. Vigorously vortex.
- Incubate 30 ± 1 minutes at 15°C to 30°C
- Pipette 50 μ L C1-Inhibitor Reactant-treated Standards, Controls and specimen into microassay wells.
- Incubate 10 ± 1 minutes at 15°C to 30°C
- Wash the assay wells five times
- Add 50 μ L of C1-Inhibitor Conjugate to each well
- Incubate 60 ± 1 minutes at 15°C to 30°C
- Wash the assay wells five times
- Pipette 100 μ L Substrate Solution to each assay well

- Incubate 15 minutes at 15°C to 30°C
- Add 100 μ L of Stop Solution to each assay well
- Measure absorbance at 450 nm

Assay Performance

Method: ELISA

Analyte: Functional C1-Inhibitor Protein

Sample Volume: Minimum of 10 μ L

Abnormal Results: $\geq 40\%$ Mean Normal

Precision (inter-assay): 5.7%-10.0%

Precision (intra-assay): 3.3%-5.4%

Assay Time: Approx. 3 Hours