



C3a Plus EIA

For **Research Use Only** in the United States. Not for use in diagnostic procedures.

Background

The MicroVue C3a Plus Enzyme Immunoassay provides quantitative measurement of C3a-desArg.

C3a is generated as the result of cleavage of complement protein C3 by soluble C3-convertase during activation of the complement system via the classical, lectin or alternative pathway. The anaphylatoxin C3a in serum is then rapidly cleaved into the more stable C3a-desArg. The quantitation of C3a-desArg therefore provides a reliable measurement of the level of complement activation in the test sample.

Format

- 96-well microplate with reagents sufficient to test 40 samples in duplicate
- Controls included: High, Low

Assay Steps

- Dilute Wash Buffer
- Dilute Samples: Plasma 1:200
Serum 1:5000
- Pipette 100 µL of Sample Buffer, Standards, Controls and diluted samples into assay wells
- Incubate 60 minutes at 18°C to 25°C
- Wash the assay wells four times
- Add 100 µL of C3a Conjugate to each well
- Incubate 60 minutes at 18°C to 25°C
- Wash the assay wells 4 times
- Pipette 100 µL Substrate Solution
- Incubate 15 minutes at 18°C to 25°C
- Add 100 µL of Stop Solution to each assay well
- Measure absorbance at 450 nm

Assay Performance

Method: Direct Capture

Samples: Plasma Diluted 1:200
Serum Diluted 1:5000

Sample Volume: 100 µL

Limit of Detection: 0.012 ng/mL

Assay Range: 0.023 ng/mL to
2.531 ng/mL

Assay Time: < 3 hours

Precision (intra-assay):
4.5% to 5.3%

Precision (inter-assay):
5.9% to 19.6%

