Background
The MicroVue C5a Enzyme Immunoassay provides quantitative measurement of C5a des-Arg.

C5a is generated as the result of cleavage of complement protein C5 by a C5-convertase during activation of the complement system via the classical, lectin or alternative pathway. The anaphylatoxin C5a is then rapidly cleaved into the more stable, less active, C5a des-Arg. The quantitation of C5a des-Arg therefore provides a reliable measurement of the level of terminal complement pathway activation in the test sample and for monitoring the generation of C5a in vivo and in vitro.

Assay Steps
- Dilute Wash Solution concentrate
- Dilute Samples 1:50 (serum), 1:20 (plasma)
- Pipette 300 µL of Wash Solution into assay wells
- Incubate 2 minutes at room temperature (18°C to 28°C)
- Remove liquid from wells
- Wash 2 times with Wash Solution
- Add 100 µL each of Standards, Controls and Samples into wells
- Incubate 60 minutes ±1 at room temperature (18°C to 28°C)
- Wash the assay wells 5 times with Wash Solution
- Add 100 µL of C5a Conjugate to each assay well
- Incubate 60 minutes ±1 at room temperature (18°C to 28°C)
- Wash the assay wells 5 times with Wash Solution
- Pipette 100 µL Substrate Solution
- Incubate 15 minutes ±1 at room temperature (18°C to 28°C)
- Add 100 µL of Stop Solution to each assay well
- Measure absorbance at 450 nm

Assay Performance
Method: Direct Capture
Samples: Serum Diluted 1:50
Plasma Diluted 1:20
Sample Volume: 100 µL
Assay Time: 60, 60, 60 minutes
LOD: 0.01 ng/mL
LLOQ: 0.05 ng/mL
Precision (intra-assay): 3.5% to 3.9%
Precision (inter-assay): 7.1% to 13.0%