For In Vitro Diagnostic Use

The MicroVue Bb Plus EIA measures the amount of complement fragment Bb in human plasma or serum. Bb is an activation fragment of Factor B which is part of the alternative complement pathway. By quantifying the amount of Bb, the extent of alternative pathway activation at the time of sample collection can be measured.

Elevated levels of Bb aid in the diagnosis of several kidney diseases such as chronic glomerulonephritis, lupus nephritis, as well as several skin diseases such as pemphigus herpetiformis and pemphigus vulgaris. Alternative pathway activation has also been implicated in rheumatoid arthritis, sickle cell anemia and gram-negative bacteremia.

Format
- ELISA
- 96-well microplate with reagents sufficient to test 40 samples in duplicate
- Sample type: Serum, EDTA plasma
- Controls: High, low

Species Reactivity
- Cynomolgus Monkey, Rhesus Macaque

Assay Steps
- Prepare Reagents, Standards, Controls and Samples
- Add 300 µL of wash solution into assay wells
- Incubate 1 minute at 15°C to 25°C
- Remove liquid from wells
- Add 100 µL of all Standards, Controls and Samples
- Incubate 30 ±1 minute at 15°C to 25°C
- Add 50 µL Conjugate
- Incubate 30 ±1 minute at 15°C to 25°C
- Add 100 µL Substrate Solution
- Incubate 15 ±1 minute at 15°C to 25°C
- Add 100 µL Stop Solution
- Read the OD at 450 nm

Assay Performance
- Method: Direct Capture
- Samples: Diluted 1:20
- Sample Volume: 100 µL
- Limit of Detection: 0.018 µg/mL
- Lower Limit of Quantification: 0.033 µg/mL
- Upper Limit of Quantification: 0.836 µg/µL
- Assay Range: (±3SD) 0-7.62 µg/mL
- Calibration: 5 point standard curve
- Incubation: 30,30,15 minutes
- Precision (inter-assay CV): 6.2%-9.1%
- Precision (intra-assay CV): 2.4%-4.0%