



### Bb Plus

#### 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  $\mu$ L of wash solution into assay wells
- Incubate 1 minute at 15°C to 25°C
- Remove liquid from wells
- Add 100  $\mu$ L of all Standards, Controls and Samples
- Incubate 30  $\pm$ 1 minute at 15°C to 25°C
- Add 50  $\mu$ L Conjugate
- Incubate 30  $\pm$ 1 minute at 15°C to 25°C
- Add 100  $\mu$ L Substrate Solution
- Incubate 15  $\pm$ 1 minute at 15°C to 25°C
- Add 100  $\mu$ L Stop Solution
- Read the OD at 450 nm

#### Assay Performance

**Method:** Direct Capture

**Samples:** Diluted 1:20

**Sample Volume:** 100  $\mu$ L

**Limit of Detection:** 0.018  $\mu$ g/mL

**Lower Limit of Quantification:**  
0.033  $\mu$ g/mL

**Upper Limit of Quantification:**  
0.836  $\mu$ g/mL

**Assay Range:** ( $\pm$ 3SD) 0-7.62  $\mu$ g/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%

MicroVue Bb Plus EIA – Cat. #A027

Also available:

MicroVueComplement iC3b EIA – Cat. #A006

MicroVueComplement C4d EIA – Cat. #A008

MicroVueComplement C3a EIA – Cat. #A015

MicroVueComplement SC5b-9 Plus EIA – Cat. #A020

Monoclonal Antibody to Human

Factor B (Bb) – Cat. #A227

