

**MILLIPLEX(R) Human Complement Panel 2 - Immunology Multiplex Assay The Human Complement Panel 2 Bead-Based Multiplex Assay kit, using the Luminex xMAP technology, enables the simultaneous analysis of complement proteins and factors in human serum, plasma and cell culture samples.**

Art. ID SAF-HCMP2MAG-19K-03

Unit EA

**Description**

The complement system consists of many plasma proteins that assist the ability of phagocytic cells and antibodies to clear pathogens. There are three different simultaneous pathways. The classical pathway is stimulated by antigen-antibody complexes, the alternative pathway spontaneously activates on contact with pathogenic cell surfaces, and the mannose-binding lectin (MBL) pathway recognizes mannose sugars usually present only on pathogenic cell surfaces. Because of the potential to be extremely damaging to host tissues, complement system activation must be tightly controlled. The regulating complement control proteins, including CD59, also known as protectin, are present at a higher concentration in the blood plasma than the complement proteins themselves. The complement system is thought to play a key role in many diseases with an immune component, such as asthma and many autoimmune diseases, including SLE, IBD and multiple sclerosis. It is also becoming increasingly associated with neurological disease, such as Alzheimer's disease and conditions such as spinal cord injuries.

MILLIPLEX(R) Complement Panel 2 Bead Panel is a six-plex kit to be used for the simultaneous quantification of any or all of the following analytes in serum, plasma or culture supernatant samples: C1q, C3, C3b/iC3b, C4, Complement Factor B, Complement Factor H and Properdin. The Luminex(R) xMAP(R) platform uses a magnetic bead immunoassay format for ideal speed and sensitivity to quantitate multiple analytes simultaneously, dramatically improving productivity while conserving valuable sample volume. Panel Type: Immune Response