

MICROVUE™

Complement

Technical
Data Sheet

MicroVueiC3b EIA

For Research Use Only. Not for use in Diagnostic Procedures.

The MicroVue iC3b EIA measures the amount of iC3b in human plasma, serum and other experimental samples.

Activation of the classical or alternative pathway leads to the generation of iC3b following cleavage of complement protein C3 into two fragments - C3a and C3b. The C3a fragment acts as a complement anaphylatoxin while C3b performs many biological functions including opsonization activity to hasten phagocytosis. CR1 or Factor H act as a cofactor and binds to C3b allowing Factor I to cleave this fragment at two sites. This yields inactive C3b and iC3b which expresses new biological activity upon interaction with cellular receptors.

Levels of iC3b can be significantly elevated in samples from patients with autoimmune diseases such as rheumatoid arthritis and systemic lupus erythematosus (SLE). Increased levels may also be present in other conditions in which complement activation is known to occur such as infection, myocardial infarction and glomerulonephritis.

Format

- ELISA
- 96-well microplate.
- 40 tests/kit (in duplicate).
- Sample type: Serum, plasma or experimental samples.
- Standards and Controls included.

Assay Steps

- Dilute Wash Buffer Concentrate and reconstitute Standards and Controls
- Dilute Samples between 1:25 and 1:200 in iC3b Specimen Diluent
- Add 100 µL of Standards, Controls, diluted specimens into assay wells
- Incubate 30 ±1 minute at 15-30°C
- Wash five times with Wash Buffer
- Add 50 µL of iC3b Conjugate
- Incubate 30 ±1 minute at 15-30°C
- Prepare 1X Substrate Solution
- Wash five times with Wash Buffer
- Add 100 µL 1X Substrate Solution
- Incubate 30 ±1 minute at 15-30°C
- Add 50 µL Stop Solution
- Read the OD at 405 nm

Assay Performance

Method: Direct capture
Samples diluted: 1:25-1:200
Sample volume: 100 µL
LOD: 0.012 µg/mL
Incubation Time: 30, 30, 30 minutes

TO ORDER: Call Quidel Customer service at 1.800.524.6318 (USA only), 1.408.616.4301 or fax 1.408.616.4310.

MicroVue iC3b Cat. #A006

Related Products

MicroVue C3a Plus EIA Kit	A031
MicroVue SC5b-9 Plus EIA Kit	A020
Monoclonal Antibody to Human iC3b	A209
C3b Purified Protein	A413



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