



C1q Complement, for BN™ Series and Atellica® NEPH 630 nephelometers

General information: structure, function ...

C1q component of the complement system is a glycoprotein with an approximate molecular weight of 400 kDa, composed of 18 peptide chains divided in 3 sub-units of 6. Together with the components C1r and C1s, it constitutes the C1 complex.

C1q recognizes and binds to Fc fragments of IgG and IgM immunoglobulins bound to antigen, thus activating the classical complement pathway cascade. The conformational changes produced by immunoglobulin binding enzymatically activate C1r and C1s which then continue the complement cascade.

In addition to activation of the complement classical pathway, another function of C1q is the elimination of immune complexes and apoptotic cells from the body.

Clinical Significance

C1q congenital deficiency is extremely rare (a few dozen cases in which the majority of patients suffered from Systemic Lupus (SLE)). Sometimes acquired deficiency is due to the presence of anti-C1q auto-antibodies.

Its deficiency has a significant effect on the host defense mechanisms and in the elimination of immune complexes. It is normally associated with a high incidence of autoimmune and infectious diseases (Systemic Lupus (SLE), Glomerulonephritis, Polymyositis, etc.).

Measurement of C1q is crucial for the differentiation between hereditary or acquired angioedema, because normal levels are found in hereditary angioedema while reduced levels occur in acquired angioedema.

Assay Performances and Characteristics

- → Particle Enhanced Nephelometric Immunoassay (PENIA), for their use on BN™ Series and Atellica® NEPH 630 nephelometers from Siemens Healthcare
 - $(BN^{\text{\tiny{IM}}}$ and Atellica® are a registered trademark of Siemens Healthcare).
- Reagents, Calibrator and Controls ready to use in barcode-identified containers.
- Standardized to the WHO's International Ref. Preparation for human serum complement Factors (code: W1032).

Catalogue

N Latex C1q Kit

REF TD-42550

₹ 100 test

EAN/GTIN: 8434477203121 SMN: 10873731

Contains Reagents, Calibrator and Controls (2 levels)

This product is distributed by Siemens Healthineers, please contact your local representative. Not all products are available in all countries.

Product available and regulatory status depends on country registration per applicable regulations

Assay also available for other analytical platforms. For further information, please contact the Customer Support Service at support@3diaq.com