

Triglyceride Assay Kit

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CATALOG #
AAA22086

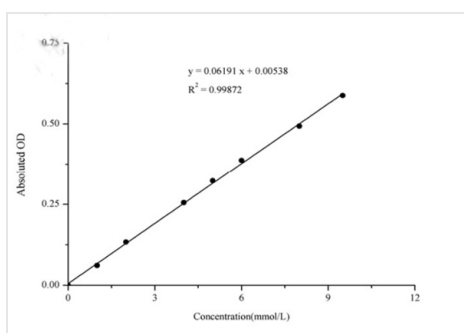
PRODUCT SYNONYMS

Triglyceride; Triglyceride assay kit

PRODUCT SPECIFICATIONS

Specificity	Data can be obtained on request.
Samples	Serum, plasma, cells, culture supernatant and other samples
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Triglyceride assay kit

Principle of the Assay: The C5a ELISA KIT is an enzyme immunoassay for the determination of human anaphylatoxin C5a and is based on the sandwich principle. Due to cross-reactivity of the monoclonal antibodies with complement factor C5, C5 in the sample is removed by precipitation prior to analysis. The resulting clear supernatant contains the C5a to be determined (10,11). During the first incubation the C5a in the sample binds to murine anti C5a monoclonal antibodies (mab 561), which are attached to the surface of the microtitration plate. Unbound constituents are then removed by washing and, in a second reaction, peroxidase conjugated monoclonal antibodies (Mab 557) are added and bound to a different epitope on C5a. The excess enzyme conjugated antibodies are removed by washing; the bound enzyme activity is then determined. The enzymatic reaction between hydrogen peroxide and chromogen is terminated by the addition of dilute sulphuric acid. The intensity of the colour intensity, which is proportional to the concentration of C5a, is determined photometrically. The concentration range of approx. 0.1 to 10 ug/L (the exact values are indicated on the labels) is covered by the standards contained in the kit. For higher concentrations the sample must be diluted with dilution reagent!!

Background/Introduction: The C5a Enzyme Immunoassay Kit provides materials for the quantitative determination of Anaphylatoxin C5a in human plasma or urine. The complement system consists of more than 20 proteins which evolved as defense system against invading microorganisms. It can also be activated in a variety of disease states or upon contact with medical devices or drugs (1). Upon activation, a cascade of proteolytic enzymes releases the anaphylatoxins C3a, C4a and C5a from their respective precursors (2). These fragments exert various biological functions such as histamine release, smooth muscle contraction, increase in capillary permeability or immunomodulation (3). In addition, C5a and its degraded form C5a-desArg are highly potent chemotactic agents for polymorphonuclear leukocytes, which then will release tissue degradative enzymes and oxygen radicals (4). This in turn will also lead to activation of other humoral systems such as coagulation and fibrinolysis (5). Thus, C5a is probably the most important complement-derived proinflammatory mediator. C5a is believed to play a pivotal role in the pathogenesis of septic shock, the adult respiratory distress syndrome, acute pancreatitis and the deleterious effects after myocardial infarction (6,7,8). Recently it has been shown that C5a is closely associated with the capillary leak syndrome in leukemic children after bone marrow transplantation. C5a is also a marker in urine for predicting the onset of acute graft rejection after kidney transplantation (9). With respect to possible deleterious consequences, C5a determination may be indicated during hemodialysis, after cardiopulmonary bypass or after any other contact with medical devices (10).

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/triglyceride/22086>