Datasheet for ABIN459372

Tick-Borne Encephalitis Virus IgG and IgG Avidity ELISA Kit

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Overview

Quantity:	96 tests
Target:	Tick-Borne Encephalitis Virus IgG and IgG Avidity
Reactivity:	Human
Method Type:	Indirect ELISA
Application:	ELISA

Product Details

Purpose:	anti-TBEV IgG and IgG avidity is a solid-phase immunoanalytical test.
Brand:	ELISA-VIDITEST
Sample Type:	Serum, Plasma
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Components:	• ELISA break-away strips in the handling frame coated with the specific antigen STRIPS Ag 1 x 12 pcs • 1.3 mL of positive control human serum containing high avidity antibodies (High avidity control serum) r.t.u.1) HIGH AVID 1 vial • 1.3 mL of positive control human serum containing low avidity antibodies (Low avidity control serum) r.t.u. LOW AVID 1 vial • 1.3 mL Standard A = Negative control human serum, r.t.u. ST A/NC 1 vial • 2.0 mL Standard D = Calibrator (human serum), r.t.u. ST D/CAL 1 vial • / 1.3 mL Standard E = Positive control human serum, r.t.u. ST E/PC 1 vial • 13 mL Anti-human IgG animal antibodies labelled with horseradish peroxidase (anti-IgG Px conjugate) r.t.u. CONJ 1 vial

Product Details

	• 55 mL Wash buffer, 10x concentrated WASH 10x 1 vial • 60 mL Dilution buffer, r.t.u. DIL 1 vial • 13 mL Chromogenic substrate TMB, r.t.u. (TMB/H2O2) TMB 1 vial • 13 mL Urea solution, r.t.u. UREA 1 vial • 13 mL Stop solution, r.t.u. (0.4 M sulfuric acid) STOP 1 vial • Instruction manual • Quality Control Certificate • 1) r.t.u., ready to use
Material not included:	• Distilled or deionised water for dilution of buffer and standard concentrates • appropriate and calibrated equipment for pipetting • temperature controlled incubator • spectrophotometer or platereader with the appropriate filters • empty microtiter plate for pre-incubation

Target Details

Target:	Tick-Borne Encephalitis Virus IgG and IgG Avidity
Target Type:	Antibody

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Plate:	Pre-coated
Protocol:	anti-TBEV IgG and IgG avidity is a solid-phase immunoanalytical test. The polystyrene strips are coated with specific antigen which bear immunodominant epitopes of TBEV. Anti-TBEV antibodies in samples bind to the immobilized antigens. The antibodies that do not bind are washed away and those that formed complexes with the antigens are later on recognised by animal anti-human IgG antibodies labelled with horseradish peroxidase. The presence of labelled antibodies is revealed by an enzymatic reaction with a chromogenic substrate. Negative samples do not react and the mild change in colour, if present, may be attributed to the reaction background. To determine avidity, each sample is applied in parallel to two wells, with the appropriate antibodies binding to the immobilized antigens. In the next step, one well is incubated with the wash solution, the other well with the urea solution. In the first well, specific antibodies with high and low avidity remain bound to the antigen. In the second well, low-avidity antibodies are released due to the concentrated urea solution, and only high-avidity antibodies remain complex with the antigen. The ratio between the optical density of the well with the urea solution and the well with the washing solution in percent expresses the relative avidity index

Application Details

	(RAI).
Restrictions:	For Research Use only

Handling

Storage:	4 °C