SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

（**FOR RESEARCH USE ONLY. DO NOT USE IT IN CLINICAL DIAGNOSIS !**）

Human Treponema Pallidum (TP) Antibodies ELISA Kit

Catalog No: E-HD-E048

96T/96T*2

This manual must be read attentively and completely before using this product.

If you have any problem, please contact our Technical Service Center for help.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Email: techsupport@elabscience.com

Website: www.vetassay-elab.com

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

Test principle

This ELISA kit uses Sandwich-ELISA as the method to detect the Treponema Pallidum (TP) antibody in human serum or plasma. The ELISA Microtiter plate provided in this kit has been pre-coated with recombinant TP antigen. Samples are added to the ELISA Microtiter plate wells and the TP antibody in the samples will combine with the pre-coated antigen to form antigen-antibody compound. Free components are washed away. The HRP conjugated recombinant TP antigen is added to each well and react with the compound to form "TP antigen- TP antibody-HRP conjugated TP antigen" compound. The TMB substrate is added to initiate the color developing reaction. The presence of TP antibody can be determined according to the OD value after colorimetric assay with the Micro-plate Reader.

Kit components

Item	Specifications
ELISA Microtiter plate	96 wells
Positive Control	1 mL
Negative Control	1 mL
HRP Conjugate	6 mL
20×Concentrated Wash Buffer	50 mL
Substrate Reagent A	6 mL
Substrate Reagent B	6 mL
Stop Solution	6 mL
Plate Sealer	3 pieces
Sealed Bag	1 piece
Manual	1 copy

Experimental instrument

Micro-plate Reader with 450 nm wavelength filter or dual-wavelength (450/630 nm)

High-precision transferpettor, EP tubes and disposable pipette tips

37℃ Incubator or water bath

Deionized water

Absorbent paper

Loading slot for Wash Buffer

Sample preparation

1. Serum and plasma can be used as detected sample. Fresh collected serum samples should be fully centrifuged, then take clear liquid for test. The suspended fibrous protein may cause a false positive if not fully precipitated. Obviously contaminated samples can't be detected.
2. Anticoagulant (such as EDTA, sodium citrate and heparin, etc.) in the samples do not affect the results. Samples with hyperlipidemia, severe hemolysis, high concentration of proteins may lead to wrong results, and they are not recommended to be used.
3. Samples can be stored at 2~8℃ for one week or stored at -20 ℃ for more than a week. Avoid freeze-thaw cycles. Freezing samples should be mixed fully before test.

Assay procedure

Bring all reagents to room temperature for 30 min. Dilute the 20×Concentrated Wash Buffer for 20 times with distilled water.

1. **Add sample:**
   (1) Reserve 1 well for blank control (empty), 3 wells for negative control, 1 well for positive control (50 μL control serum for each well). (Blank well is not necessary for dual-wavelength detection).
   (2) Add 50 μL of sample to other wells.
   (3) Gently tap the plate to mix thoroughly.
2. **Incubate:** Cover the ELISA plate with sealer. Incubate for 60 min at 37℃.
3. **Wash:** After incubation, remove the plate sealer and aspirate the liquid of each well. Repeat the washing procedure for 5 times with wash buffer and immerse for 30-60 sec each time.
4. **HRP conjugate:** Add 50 μL of HRP Conjugate to each well except the blank control well.
5. **Incubate:** Cover the ELISA plate with sealer. Incubate for 30 min at 37℃.
6. **Wash:** After incubation, remove the plate sealer and aspirate the liquid of each well. Repeat the washing procedure for 5 times with wash buffer and immerse for 30-60 sec each time.
7. **Add substrate:** Add 50 μL of Substrate Reagent A and 50 μL of Substrate Reagent B to each well. Gently tap the plate to mix thoroughly. Cover with a new plate sealer. Incubate for 30 min at 37℃ in dark (The reaction time can be extended according to the actual color change).
8. **Stop reaction:** Add 50 μL of Stop Solution to each well, gently tap the plate to mix thoroughly.
9. **OD Measurement:** Set the Micro-plate Reader wavelength at 450 nm (it is recommended to set the dual wavelength at 450 nm/630 nm) to detect A value of each well. Blank well is not essential when using dual wavelength 450 nm/630 nm for detection. **Note: Read the results within 10 min.**

Reference value

1. **Result analysis**
   (1) Use each test result independently. Determine the result according to the Cut Off value.
   (2) Calculate the Cut Off: Cut Off(C.0) = 0.10 + average A value of negative control (NC) (when average A450 of NC ＜ 0.05, calculate at 0.05; while average A450 of NC ≥ 0.05, calculate at the actual value).
2. **Quality control**
   (1) Blank well (just chromogenic agent and stop solution) absorbance: A450≤ 0.08.
   (2) Positive control (PC): A_{450} ＞ 0.80
   (3) Negative control (NC): A_{450} ＜ 0.08.
   The experimental result is valid if quality control is valid.
3. **Determination of results**
   (1) Positive result: A450 of Sample ≥ Cut Off.
   (2) Negative result: A450 of Sample ＜ Cut Off.

Interpretation of results

1. Negative result indicates there is no TP antibody detected in samples, while positive result means the opposite.
2. The positive result of TP antibody is an important index of TP infection. Any positive result should be determined combined with clinical information

Limitations of test method

1. All high sensitivity immune experiment system exists potential non-specificity. Therefore, unacceptable positive results may be caused by biological false positive of ELISA method.
2. Any positive result should be determined combined with clinical information.

Notes

1. This kit is for research use only. It is disposable and cannot be used repeatedly.
2. Instructions should be followed strictly, changes of operation may result in unreliable results.
3. Wear gloves and work clothes during experiment, and the disinfection and isolation system should be strictly executed. All the waste should be handled as contaminant.
4. The stop solution is corrosive, it should be avoided to contact with skin and clothing. Wash immediately with plenty of water if contact it carelessly.
5. The ELISA plate obtained from cold storage conditions should be adjusted to room temperature before use. The unused plate should be kept in a sealed bag with desiccant.
6. 20×Concentrated Wash Buffer at low temperature condition is easy to crystallization, it should be adjusted to room temperature in order to dissolve completely before use.
7. The results shall depend on the readings of the micro-plate Reader.
8. Do not use components from different batches of kit.
9. All the samples and waste material should be treated as infective material according to the relevant rules of biosafety.

Storage and shelf life

Store unopened at 2 to 8℃. Do not freeze.

Please store the opened kit at 2-8℃, protect from light and moisture. The shelf life of the opened kit is up to 1 months.

Expiry date: expiration date is on the box.