

in vitro diagnostic test

Anti-HIV 1/2 Test, WB/S/P

GB	Instruction For Use	02
DE	Gebrauchsanweisung	04
FR	Instructions D'utilisation	06
IT	Istruzioni Per L'uso	08
ES	Instrucciones De Uso	10
PT	Instruções De Utilização	12
CZ	Návod K Použití	14

PL	Instrukcja Uzywania	16
DK	Instruktioner For Brug	18
NO	Bruksanvisning	20
SE	Instruktioner För Användning	22
FI	Käyttöohjeet	24
RO	Instrucțiuni De Utilizare	26
BG	Инструкции За Употреба	28
RU	Инструкция По Применению	30



INSTRUCTION FOR USE Anti-HIV 1/2 TEST, WB/S/P

Only for professional in vitro diagnostic use

Anti-HIV (HIVab) Detection in Whole Blood / Serum / Plasma

in vitro diagnostic test

Product Code: IHIV02

Human Immunodeficiency Virus Antibody Cassette Test

BACKGROUND INFORMATION

HIV (human immunodeficiency virus) is the virus that causes AIDS (Acquired Immunodeficiency Syndrome), destroys certain blood cells that are crucial to the normal function of the immune system, which defends the body against illness. It occurs when the immune system is weakened by HIV to the point where a person develops any number of diseases or cancers.

HIV cannot be transmitted through casual, everyday contact. Mosquitoes and other insects do not transmit HIV. HIV can be spread by sexual contact with an infected person, by sharing needles and/or syringes and/or other injecting equipment or, less commonly (and now very rarely in countries where blood is screened for HIV antibodies), through transfusions of infected blood or blood odting factors.

Early laboratory diagnosis of primary human immunodeficiency virus (HIV) infection is based on the detection of viral RNA or p24 antigen in plasma or serum prior to antibody seroconversion. The diagnostic window of HIV infection may be reduced on average by 4-5 days by screening for p24 antigen. HIV infection is most commonly detected through the test of a sample of blood or or alf fluid. If the blood or oral fluid ample contains HIV antibodies: proteins the body produces to fight off the infection-the person is HIV-positive. Rapid immunochromatographic test devices offer significant advantages which include being of cost-effective testing, early diagnosis, easy to operate and rapid initiation of treatment.

INTENDED USE

Anti-HIV 1/2 Test is a rapid qualitative immunoassay for the detection of antibodies (IgG, IgA and IgM) generated against all subtypes of Human Immunodeficiency Virus Type 1 (HIV-1) (including Group O) and Type 2 (HIV-2) in human whole blood / serum / plasma.

REAGENTS

Recombinant HIV antiqen, anti-HIV monoclonal antibody and recombinant HIV antiqen conjugated with colored particles.

METHOD

Ant-HIV I/2 Test uses immunochromatographic technology for the qualitative detection of anti-HIV in human whole blood / serum / plasma. Sample is introduced from sampling pad. If there is anti-HIV in the sample at detectable level, anti-HIV binds to the mobile recombinant HIV antigens conjugated with colored particles. Together they move to the test area "T". A visible colored signal due to the accumulation of colored particles in the test area "T" do colored test line) indicates positive test result. If there is no anti-HIV in the sample at detectable level then sample moves to the test area "T together with unbound recombinant HIV antigens conjugated with colored particles. Therefore, there is no visible colored signal in test area "T" (no colored test line) be obtained, indicating negative test result. Regardless of anti-HIV content of the liquid sample, accumulation of colored particles produces a visible colored signal in the control area "C" (a colored control line), indicating a valid test result. Colored line always anpears in the cortical area "C" in colored test line) be obtained in control area "C" is test result should be indicated as invalid.

PRECAUTIONS AND LIMITATIONS

- For professional and in vitro diagnostic use only.
 Read this insert completely and carefully prior to use of the test. Test must be performed in strict accordance with these instructions to obtain accurate results.
- 3. The test is designed for whole blood / serum / plasma samples. Using other types of samples may cause invalid or false results.
- 4. Do not use test kit beyond the indicated expiry date. The test device is single use. Do not reuse.
- 5. The test device should remain in its original sealed pouch until usage. Do not use the test if the seal is broken or the pouch is damaged.
- 6. Use a new pipette for each sample. Close the buffer bottle cap after using. Buffer is stable until expiry date after the first use in routine.
- 7. Adequate lighting is required to read the test results.
- The test device should be discarded in a proper biohazard container after testing.
- 9. This test kit should be handled only by adequately qualified personnel trained in laboratory procedures and familiar with their potential hazards. Wear appropriate protective clothing, gloves and eye/face protection and handle appropriately with the requisite Good Laboratory Practices.
- 10. All patient samples should be handled as taking capable of transmitting disease into consideration. Observe established precautions against microbiological hazards throughout all procedures and follow the standard procedures for proper disposal of samples.
- tinogripote air procedures and flow the samuals procedures for proper disposal of samples.

 11. Do not freeze and thaw the serum, plasma samples repeatedly. Using of frozen and thawed samples should be avoided whenever possible, due to the blocking of the membrane by the debris.
- 12. Do not use turbid, hemolyzed samples. Turbid test samples should be centrifuged.
- 13. Hemolytic samples should not be used since they can lead to invalid or false results.

 14. A negative result does not exclude the possibility of HIV infection. If the test result is negative and clinical symptoms persist, additional follow-up testing using other clinical methods is required.
- Table to recent infection. In exceptional cases; presence of mutant virus and infection with a variant of the virus may lake several months to reach detectable levels due to recent infection. In exceptional cases; presence of mutant virus and infection with a variant of the virus may lead to observation of false negative results.
- 16. Positive samples should be retested using another method and the results should not be used as the only basis for the diagnosis of HIV infection.
- 16. Positive samples should be retested using another method and the results should not be used as the only basis for the diagnosis of HIV infection.
 17. As with all diagnostic tests, it should be kept in mind that an identification diagnosis can't be based on a single test result. Diagnosis can only be reached by an expert
- after the evaluation of all clinical and laboratory findings.

STORAGE

Test device should be kept away from direct sunlight, moisture, heat and radiation sources. Store at 4 - 30°C (39 - 86°F). Do not freeze.

The test in the original packaging retains stable until expiry date at storage conditions. The test device should be used in maximum one hour after the foil is opened. **Kit components**: Test cassettes, pipettes, diluents and instructions for use.

Additional materials required but not provided: Sample collection tube, centrifuge and timer, for fingerstick whole blood: sterile lancet and capillary tubes.

Additional materials recommended but not provided: Micropipettes to deliver mentioned amount of sample in the test procedure, negative and positive control materials.

SAMPLE COLLECTION AND PREPARATION

The test can be performed using whole blood (venous blood and capillary blood), serum or plasma. To avoid hemolysis, serum or plasma should be separated from blood as soon as possible and tested immediately after collection. If the sample cannot be tested on the day of collection, serum or plasma samples should be refrigerated to 8°C for up to 3 days prior to testing. If testing within 3 days is not possible, serum or plasma samples should be frozen at -20°C or colder. Frozen serum, plasma samples must be completely thawed and mixed well prior to testing. After the samples to round the membrature before testing.

Plasma and venous blood can be collected with the following anticoagulants: K3EDTA, K2EDTA, sodium citrate (3,2%), sodium citrate (3,8%), lithium heparin, sodium heparin.

Serum Samples: Collect blood into a collection tube without anticoagulant, leave to settle for 30 minutes for blood coagulation and then centrifuge the blood. At the end of centrifuge period remaining supernatant is used as serum (Centrifugation time & speed: 2300-2880 x g for ~ 10 min).

Plasma Samples: Collect blood into a collection tube with anticoagulants to avoid coagulation of blood sample and then centrifuge the blood. At the end of centrifuge period supernatant is used as plasma (Centrifugation time & speed: 2300-2880 x g for ~ 10 min).

Whole Blood Samples: Collect venous blood into a collection tube with anticoagulants to avoid coagulation, test should preferably be performed immediately. Otherwise, whole blood samples should be stored at 2 - 8 °C until they are being tested in a period of 2 days after collection. Do not freeze whole blood sample.

For Capillary Blood; according to the laboratory practice, use a sterile lancet and an appropriate capillary tube to collect blood by capillary action. Test should be performed immediately.

TEST PROCEDURE

- 1. Bring the tests and whole blood / serum / plasma samples to room temperature. Take the test out of its pouch.
- 2. For Serum / Plasma Samples: Draw serum / plasma into pipette and put 1 drop (25 µl) into the sample well of the cassette. Immediately after, 1 drop of diluent is added into the sample well and allowed to soak in.
- For Whole Blood Samples: Draw whole blood into pipette and put 1 drop (25 µl) into the sample well of the cassette. Immediately after, 1 drop of diluent is added into the sample well and allowed to soak in.
- When using Capillary Blood Samples: Collect 25 µl of fingerstick whole blood using the capillary tube (not provided) and transfer it into the sample well of the cassette. Immediately after, 1 drop of diluent is added into the sample well and allowed to soak in. Avoid the formation of any air bubbles.
- 3. Results should be read at 15 minutes as shown below. Do not interpret results beyond 20 minutes, results forming after 20 minutes should be regarded as invalid.

INTERPRETATION OF RESULTS

Negative: Only one colored line is visible in "C" area

Positive: Two colored lines are visible in "C" and "T" areas.

Low concentration of HIV antibody may cause a faint line in "T" area. Even such a faint line in "T" area should be regarded as "positive

Invalid: No colored line is visible or only one colored line is visible in "T" area; test should be repeated using a new test device. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test device. If the problem persists, discontinue using the test kit immediately and contact your local distributor.





OLIALITY CONTROL

Tests have built in procedural quality control features. When the test is complete, the user will see a colored line in the "C" area of the test on negative samples and a colored line in the "T" and "C" area on positive samples. The appearance of the control "C" line is considered as an internal procedural control. This line indicates that sufficient volume of sample was added as well as valid test result. It is recommended that a negative control and are the control but a valid test result. performance as an external control. Users should follow appropriate federal, state and local guidelines concerning the external quality controls.

PERFORMANCE EVALUATION

Anti-HIV 1/2 Test can detect antibodies (IgG, IgA and IgM) generated against all subtypes of Human Immunodeficiency Virus Type 1 (HIV-1) (including Group O) and Type 2 (HIV-2).

Sample Status	Sample Anti-HIV Status	S / P Sample Type			WB Sample Type		
Sample Status		Study Number	Com. Assay	Result	Study Number	Com. Assay	Result
Positive samples (including all available subtypes)	Positive	461	EIA	100 %	44	EIA	100 %
Blood donors	Negative	1045	EIA	100 %	-	-	-
Clinical samples	Negative	341	EIA	100 %	215	EIA	100 %
Pregnant women	Negative	280	EIA	100 %	30	EIA	100 %

Sensitivity and Specificity

No interference was observed

Using results of positive samples (505/505) and negative samples (1911/1911); sensitivity, specificity values with the 95% confidence interval are calculated as; Sensitivity: 100 % [95% CI = 99,27% - 100%] Specificity: 100 % [95% CI = 99,81% - 100%]

Seroconversion panels: 30 seroconversion panels were studied with Türklab Anti-HIV 1/2 Test and compared to results from CE Marked EIAs as reference assays. Türklab Anti-HIV 1/2 Test was capable of detecting antibodies to HIV 1/2 in a similar manner of the CE Marked EIA tests.

Interferences: Following potentially interfering substances were tested with Anti-HIV 1/2 Test: Hemoglobin, Bilirubin, Triglycerides, Rheumatoid Factor (RF).

Hemolytic samples should not be used since they can lead to invalid or false results.

Cross Reactivity: Cross reactivity has been tested with below samples, no cross reactivity was found with the Anti-HIV 1/2 Test.

- Anti-HRs whole blood / serum / plasma samples
- HBsAg whole blood / serum / plasma samples,
- Anti-HCV serum / plasma samples.
- Whole blood / serum / plasma samples from pregnant women.

Capillary Blood: Positive and negative capillary whole blood specimens collected by fingerstick were performed with Anti-HIV 1/2 Test. The results showed that there was a good correlation of testing results between venous whole blood and capillary blood.

REFERENCES

- KEFERENCES

 1. UNAIDS: Global Fact Sheets, 2018.

 2. UNAIDS (Global Fact Sheets, 2018.

 2. UNAIDS (Global Fact Sheets, 2018.

 2. UNAIDS (Global Fact Sheets, 2018.

 3. UNAIDS (Global Fact Sheets)

 3. UNAIDS (Global Fact Sheets)

 4. Global guidance on criteria and processes for validation: elimination of mother-to-child transmission of HIV and syphilis, World Health Organization, 2nd edition, 2017.

 5. 2017 global HIV statistics, Global Win and AIDS Statistics

 5. 2017 global HIV statistics, Global Win and AIDS Statistics

 6. 2017 global HIV statistics, Global Win and AIDS Statistics

 7. 2017 global HIV statistics, Global Win and AIDS Statistics

 7. 2017 global HIV statistics, Global Win and AIDS Statistics

 8. 2017 global HIV statistics, Global Win and AIDS Statistics

 8. 2017 global HIV statistics, Global Win and AIDS Statistics

 8. 2017 global HIV statistics, Global Win and AIDS Statistics

 8. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics, Global Win and AIDS Statistics

 9. 2017 global HIV statistics

 9. 2017 global
- 6. Badwan A., Mohammed M.A., (2008). "Rapid Immunochromatographic Detection By Amplification Of The Colloidal Gold Signal", International Publication Number. WO 2008/071342
- N1. 7. WHO Regional Office for Africa/CDC. Guidelines for appropriate evaluations of HIV testing technologies in Africa. Harare: World Health Organization; 2001.

 8. UNAIDS/WHO. Working Group on Global HIV/AIDS/STI Surveillance. Guidelines for using HIV testing technologies in surveillance: selection, evaluation and implementation 2009
- undate
- upuate:
 9. WHD, "Global Status Report On Blood Safety and Availibility 2016", Fact Sheets, World Health Organization 2017.
 10. "UNAIDS urges a scaling up of HIV vaccine research to stop new infections", Press Statement, GENEVA, 17 May 2018.
 11. Global AIDS Update; 2018.





TÜRKLAB TIBBİ MALZEMELER SAN. ve TİC. A.Ş.

B 10017 Sokak No: 2 Tekeli Menderes Izmir / TURKEY +90 237 376 80 81 • F:+90 237 376 80 40 • www.turklab.com.tr • info@turklab.com.tr





instruction for use



Attention. see instruction for use In vitro diagnostic medical device



For single use only



REF Catalog number



Expiry date

