

Leptospira Antibody Lateral Flow Assay Kit

Catalog No: E-HD-C116

20T/40T

Version Number:	V1.0
Replace version:	V1.0
Revision Date:	2026.01.27

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

If you have any problems, 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

The Leptospira Antibody Test Kit is a lateral flow chromatographic immunoassay. When an adequate volume of test specimen is dispensed into the sample well of the test cassette, the specimen migrates by capillary action along the cassette. Ab anti-L. interrogans virus, if present in the specimen, will bind to the Leptospira Ag conjugates. The immunocomplex is then captured by the pre-coated anti-human Ab, forming a burgundy colored T line, indicating a L. interrogans Ab positive test result.

Kit components

Item	Specification
Detection card	20/40 T
Sample Diluent	1 vial
Dropper	20/40
Manual	1 copy

Note: All reagent bottle caps must be tightened to prevent evaporation and microbial pollution.

Notes

1. FOR RESEARCH USE ONLY. Please read the manual carefully before use, changes of operation may result in unreliable results.
2. Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly. The opening detection card should be used as soon as possible so as not to be invalid because of moisture.
3. The test temperature should be kept constant. Avoid of operating under high temperature condition.
4. The detection card should be adjusted to room temperature after removed from the refrigerator before opening.
5. Components from different batches and kinds of kit cannot be mixed. Do not mix reagents with other producers.
6. Avoid of touching the chromatography membrane of the sample well and test well.
7. The waste of experiment should be considered as contaminant, and must be properly handled according to the local regulations.
8. Each reagent is optimized for use in the E-HD-C116. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-HD-C116 with different lot numbers.

Storage and expiry date

Storage: Store at 4-30°C. With cool and dry environment, avoid freeze.

Expiry date: expiration date is on the packing box.

Sample preparation

Consider any materials of human origin as infectious and handle them with standard biosafety procedures.

For plasma samples

Collect blood specimen into a lavender, blue or green top collection tube (containing EDTA, citrate or heparin, respectively) by venipuncture.

Separate the plasma by centrifugation.

Carefully withdraw the plasma into a new pre-labeled tube.

For serum samples

Collect blood specimen into a red top collection tube (containing no anticoagulants) by venipuncture.

Allow the blood to clot.

Separate the serum by centrifugation.

Carefully withdraw the serum into a new pre-labeled tube.

Test specimens as soon as possible after collecting. If not tested immediately, store specimens at 2-8°C for up to 5 days. For longer storage, specimens should be kept frozen at -20°C. Avoid multiple freeze-thaw cycles. Prior to testing, bring frozen specimens to room temperature slowly and mix gently. Specimens containing visible particulate matter should be clarified by centrifugation before testing. Do not use samples demonstrating gross lipemia, gross hemolysis or turbidity in order to avoid interference on result interpretation.

For whole blood samples

Drops of whole blood can be obtained by either fingertip puncture or venipuncture. Collect blood specimen into a lavender, blue or green top collection tube (containing EDTA, citrate or heparin, respectively). Do not use any hemolyzed blood for testing.

Whole blood specimens should be stored at 2-8°C if not tested immediately. The specimens must be tested within 24 hours of collection.

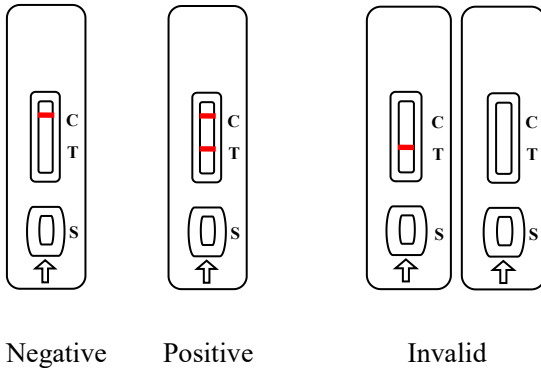
Assay procedure

Read the manual carefully before detection. The reagent and sample should be adjusted to room temperature (25°C) before use. The detection card cannot be opened before the experiment condition is ready.

1. Take the detection card out and put it on flat and clean table.
2. Apply 1 drop of samples (about 10 µL) into the sample well (S). Then add 3-4 drops of **Sample Diluent** immediately.
3. Observe the result within 5 min. The result is invalid after 10 min.

Judgment of result

1. **Negative:** Red line only appears in control line (C).
2. **Positive:** Red line appears in both test line (T) and control line (C).
3. **Invalid:** No color line appears in control line (C). It indicates that the operation is wrong or the detection card is invalid, please carry out another detection.



Interpretation of results

1. **Positive result:** The sample contains Leptospira Ab, and clinical information needs to be combined to determine whether the patient has been infected with *L. interrogans* virus.
2. **Negative result:** No Leptospira Ab was detected in the sample, or the concentration of Leptospira Ab is too low to the detection limit. The possibility of being infected cannot be completely excluded at this situation.

Limitations of this test method

This product is for qualitative detection of Leptospira Ab of sample (plasma, serum, whole blood), while the detection effect for samples from other parts is still unclear.