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

Human LH Lateral Flow Assay Kit

Catalog No: E-HD-C079

20T/40T

Version Number:	V1.1
Replace version:	V1.0
Revision Date:	2022.04.19

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

This product adopts double antibody sandwich method and the technical principle of colloidal gold immunochromatography. The test strip contains colloidal gold labeled LH monoclonal antibody I that is wrapped in conjugate pad, LH monoclonal antibody II that is fixed on the membrane, and quality-control line C that is coated with goat anti-mouse IgG antibody. By the highly specific antigen-antibody reaction and colloidal gold immunochromatography technology, it qualitatively determines LH levels in human urine in vitro.

Test principle of supporting instrument: the instrument measurement system automatically scans the test area and the quality control area to obtain the optical signal ratio, and then measures and analyzes the optical signal ratio to qualitatively obtain the concentration of the tested analyte.

Kit components

Item	Specification
Test Card	20T/40T
Dropper	20/40 pieces
Manual	1 copy

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

Notes

1. The product is disposable and cannot be reused. Please use it within the validity date.
2. Please do not open the product before use. If the package is obviously damaged, please do not use it.
3. The reagent components of different batches cannot be mixed.
4. Appropriate protective measures shall be taken during the collection, disposal, storage, mixing and testing of samples.
5. There is a desiccant in the aluminum foil bag, which should not be taken orally.
6. Excessive high temperature of the experimental environment should be avoided. The cold stored test card should be opened after returning to room temperature to avoid moisture absorption.
7. Fresh samples are recommended. If there is obvious hemolysis or blood clot in the samples, it will interfere with the test and lead to wrong results.
8. All specimens, waste liquid and pipes are treated as infectious pollutants. After the test, the used test card should be discarded in the corresponding biological hazard container and treated as biological hazard.
9. If the reagent is stored in the refrigerator, it is recommended to take it out and equilibrate to room temperature before opening for use.
10. If you have any questions or suggestions during the use of this reagent, please contact the manufacturer.

Storage and expiry date

Storage: Store at 4-30℃. With cool and dry environment.
Expiry date: expiration date is on the packing box.

Requirements of sample

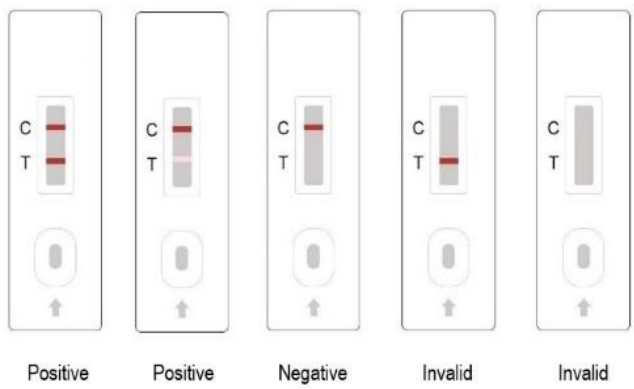
Collect fresh urine samples with disposable clean containers. If the urine sample is visibly turbid, please centrifuge, filter, or precipitate the supernatant for detection. Urine samples are recommended to be tested within 4 hours. If the test cannot be performed within 4 h, the urine samples can be stored in the refrigerator at 2℃-8℃ for 48 h. Do not freeze or store the urine sample for a long time.

Assay procedure

1. Before the test, please read the instructions completely, and bring the reagent card and urine samples to room temperature (20℃ - 30℃). The test should be conducted at room temperature.
2. Take the test reagent out of the aluminum foil packaging bag, and use it within 1 hour after unsealing to prevent moisture of test card.
3. Use a dropper to draw enough urine sample, and add 2-3 drops (80-100 μL) of urine sample to the sample well of the reagent card. Start the timer.
4. Read the result at 5 minutes, and the result is only valid for 20 minutes.

Interpretation of results

1. Positive: two purplish red bands appear on the test line (T) and quality control line (C).
2. Negative: only one purplish red band appears on line C.
3. Invalid: no purplish red band on the quality control line (C), indicating incorrect operation or deterioration of the reagent. In this case, please read the instructions carefully again and retest with a new reagent.



NOTE: This figure is only used as a reference.

Limitations of this test method

1. This reagent is only used for the detection of human urine samples. The correct results can only be

obtained by careful operation in strictly accordance with the operating procedures. Any modification to the operating procedures may affect the results.

2. The test result of this reagent can only be used as auxiliary tool. The test result should be combined with other data.
3. False positive results can be caused by several factors: cross-reaction of similar antibody components in the samples; some of the nonspecific components in the samples have similar antigen epitope capture labeled antibodies.
4. False negative results may be due to the following reasons: some unknown components blocked antigen epitope to prevent it from binding to the antibody; unstable antigens gradually degrade with time and temperature and cannot be recognized by antibodies. Unreasonable sample collection, transshipment and treatment resulted in too low concentration of the substance in the sample. Effective test results depend on a good sample storage environment.
5. Other factors can also cause test errors, including technical reasons, operational errors, and other sample factors.