Brucellosis Antigen Lateral Flow Assay Kit

Catalog No: E-AD-C041

40T

Version Number:	V1.2
Replace version:	V1.1
Revision Date:	2025.09.22

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 kit applies the principle of Immunochromatography assay. The sample will move together with the colloidal gold marker along the chromatography membrane. If Brucellosis Antigen exist in the samples, it will combine with the colloidal gold marker and the Antibodies in the detection line, then it will show a purple color. Otherwise, it will not show the color reaction.

Kit components

Item	Specification
Detection Card (with a dropper)	40T
Sample Diluent	40 vials
Cotton swab	40 pieces
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 Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly.
3. The detection card should be brought to room temperature before opening after take it out from the refrigerator. The opening detection card should be used as soon as possible.
4. Please do not use but not limited to the following liquids for negative control: water, PBS.
5. The tested sample should be fresh and clear. Avoid of using samples of turbidity, polluted, high hemolysis or abnormal viscous.
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-AD-C041. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-AD-C041 with different lot numbers.

Storage and expiry date

Storage: Store at 2-30℃. With cool and dry environment, avoid freeze.

Expiry date: expiration date is on the packing box.

Sample preparation

1. **Pure bacterial culture:** Select individual colonies suspected to be Brucella, place them in the sample diluent, cover the tube and vigorously shake for more than 30 s. Then let it stand for 5 min. After the large particles have settled, take the supernatant as the detection solution.
2. **Biological specimens:** Use a sterile cotton swab to dip the needle aspiration of the inguinal lymph nodes, vaginal excrement, and homogenate of the lesion tissue from suspected brucellosis animals. Then immediately insert the cotton swab into the test tube containing the sample diluent. Rotate the cotton swab forcefully against the test tube wall at least 10 times and mix the solution evenly to release the sample as much as possible into the solution. Squeeze a cotton swab onto the wall of the test tube above the liquid surface to squeeze out as much of the liquid as possible, and discard the cotton swab. Cover the tube cap and shake vigorously for more than 30 s, then let it stand for 5 min. After the large particles have settled, take the supernatant as the **test solution**.
3. **Emulsion:** Collect 20 mL of raw milk, centrifuge 2000g for 15 min, discard the supernatant, use a sterile cotton swab to dip the sediment at the bottom of the centrifuge tube, then immediately insert the cotton swab into the test tube containing the sample buffer solution, and rotate the cotton swab vigorously on the test tube wall at least 10 times to mix the solution well, so that the sample is released into the solution as much as possible. Squeeze a cotton swab onto the wall of the test tube above the liquid surface to squeeze out as much of the liquid as possible, and discard the cotton swab. Cover the tube cap and shake vigorously for more than 30 s, then let it stand for 5 min. After the large particles have settled, take the supernatant as the **test solution**.

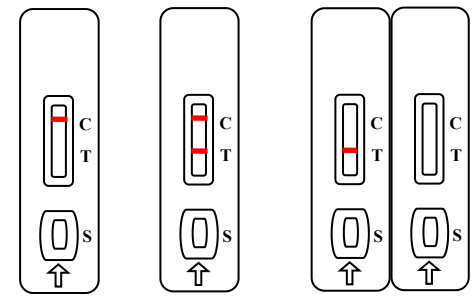
Experiment procedure

Allow all kit components and sample to reach room temperature (25℃) prior to testing.

1. Tear the aluminum foil bag of the detection card and take out the detection card, and put it on a smooth, clean table.
2. Take the **test solution** with the pipette, add 5 drops of **test solution** to the sample well(S).
3. Incubate for 15 to 20 minutes and then judge the results immediately.

Judgment of result

1. **Negative:** Only the control line region (C) shows a line in the observation well.
1. **Positive:** Both the test line region (T) and the control line region (C) show a line in the observation well.
2. **Invalid:** No line shows in the observation well of the control line region (C).



Negative Positive Invalid

Interpretation of the results

1. The negative result reveals that there is no Brucellosis antigen in the sample. If there is a corresponding acute symptom, then Brucellosis infection cannot be excluded.
2. The positive result reveals that there is Brucellosis antigen in the sample. It might be infected with Brucellosis, and the result should be combined with other methods to analyze.

Limitations

1. This kit can be used for qualitative detection of brucellosis antigen in goat, sheep and cattle.
2. The detection results of this kit are only for reference. For confirmation of the result, please combine the symptoms and other methods of detection, this detection cannot be used as the only criteria for result.