

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

Human Streptococcus Pneumoniae (SP) Lateral Flow Assay Kit

Catalog No: E-HD-C026

20T/40T

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 Sandwich-GICA (Gold Immunochromatography) method as its principle, and can be used for the detection of Streptococcus Pneumoniae (SP) antigen in sample. The quality control (C) line is pre-coated with Goat-anti-Mouse IgG antibody, and the detection (T) line is pre-coated with anti-SP polyclonal antibody. The gold pad is coated with Gold-labeled anti-SP monoclonal antibody. SP antigen in sample will combine with Gold-labeled anti-SP monoclonal antibody on the gold pad and form a complex. The complex will then move along the detection card and react with the pre-coated anti-SP polyclonal antibody on the detection line (T-line) and form a visible gold precipitation line. The residue gold labeled complex will combine with the Goat-anti-Mouse IgG antibody on the C area and form a visible gold precipitation line. If there is no SP antigen in sample, there will be no complex and precipitation line appeared.

Kit components

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

Requirements of sample

1. The sample must be human urine, and should be fully mixed before use.
2. Collect urine in a standard container. Samples can be stored at room temperature (15~30 °C) temporarily for detection within 24h, or at 2~8°C/frozen for 2 weeks.
3. Transport the samples with leak proof containers at 2~8°C/frozen if necessary.

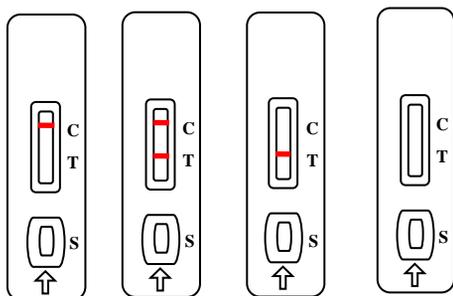
Assay procedure

Read the manual carefully before detection. The reagent and sample should be adjusted to room temperature (15°C to 30°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. Add 20 µL of sample into the sample well, then add 1 drop of sample diluent.
3. Observe the result within 15-20 min. The result is invalid after 20 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.



Negative Positive Invalid

Interpretation of results

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

Limitations of this test method

This product is for qualitative detection of SP antigen of sample,

Notes

1. The test temperature should be kept constant. Avoid of operating under high temperature condition.
2. The detection card should be adjusted to room temperature after removed from the refrigerator before opening.
3. The opening detection card should be used as soon as possible so as not to be invalid because of moisture.
4. The result should be read within 20 min.
5. Components from different batches and kinds of kit cannot be mixed. Do not mix reagents with other producers.

Storage and expiry date

Storage: Store at 4-30°C. With dry condition.

Expiry date: expiration date is on the box.