

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

## **Human Rotavirus group A (Rota A) Lateral Flow Assay Kit**

Catalog No: E-HD-C017

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](mailto:techsupport@elabscience.com)

Website: [www.vetassay-elab.com](http://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 to qualitatively detect the Rotavirus Group A (Rota A) virus in children excrement. The detection zone of nitrocellulose membrane was immobilized with anti-Rota A polyclonal antibody, and the Colloidal gold pad was conjugated with anti-Rota A monoclonal antibody. If there is a certain concentration of anti-Rota A in sample, it will combine with gold-labeled natural anti-Rota A monoclonal antibody and form a complex. The complex will then move along the detection card and react with the anti-Rota A polyclonal antibody and form a gold-labeled anti-Rota A monoclonal antibody - Rota A virus-anti-Rota A monoclonal antibody complex, thus to produce a visible gold precipitation line. The shade of the precipitation line depends on the concentration of complex. The precipitation line will not appear if there is no Rota A virus in samples.

### **Kit components**

<b>Item</b>	<b>Specification</b>
Detection Card	20T/40T
Sample Diluent	20 vials
Manual	1 copy

### **Requirements of sample**

The sample for this kit must be stool.

#### **1. Sample collecting:**

Use a clean bamboo skewer to pick the mucous and bloody stool. Samples without abnormality in appearance should be picked multiply from the surface and deep. It is recommended to take 5 g of sample as big as the tip of the thumb.

#### **2. Sample storage:**

Collect stool in a clean and dry container without hygroscopicity. Avoid of samples mixed with urine, water or other material to prevent the active ingredient from being destroyed. Fresh stool sample should be tested within 24 hours, or be stored at frozen.

#### **3. Sample transport:**

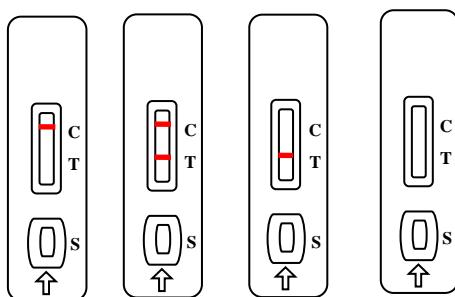
Store the samples at low temperature for short-range transport, or at frozen for long distances.

## Assay procedure

1. Sample treatment: Unscrew the pipette, take out the sampling spoon and take ~100 mg of sample with the spoon. Floating the sample side and put the spoon into the pipette containing sample diluent, tighten the pipette. Shake the pipette to mix fully and then break off the lid.
2. Read the manual carefully before detection. The reagent and sample should be adjusted to room temperature (15°C to 30°C) before use. Tear the aluminum foil bag of the detection card and take out the detection card, and put it on a smooth, clean table.
3. Add 1~2 drops (~80 µL) of treated sample into the sample well (S) on the detection card.
4. Read the result within 15-20 min. Do not interpret the result after 20 min.

## Judgment of result

1. **Positive:** Red line appears in both test line (T) and control line (C). The shade of the precipitation line is positive proportional to the concentration of detected target in sample.
2. **Negative:** Red line only appears in 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

Negative result indicates there is no Rota A virus detected in samples, while positive result means the opposite. Any positive result should be determined combined with clinical information.

## Limitations of this test method

This product is for qualitative detection Rota A virus in excrement samples only.

## **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.