Adenovirus and Rotavirus Antigen Rapid Test Kit

Catalog No.: abx090727

Size: 100 tests / 400 tests / 1920 tests / 10000 tests

Storage: Store all reagents at 4 °C - 30 °C. Keep dry.

Sensitivity: 100 % (Adenovirus) / 96.7 % (Rotavirus)

Specificity: 97.5 % (Adenovirus) / 97.2 % (Rotavirus)

Application: For qualitative detection of Adenovirus and Rotavirus antigen in human stool samples.

Introduction and assay principle

Abbexa's Adenovirus and Rotavirus Antigen Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Adenovirus or Rotavirus antigens present in samples combine with colloidal gold particle-labelled anti-Adenovirus antibodies or anti-Rotavirus antibodies in the sample well, and the complexes diffuse towards the test area. The A-test line captures the complexes via anti-Adenovirus antibodies, and the R-test line captures the complexes via anti-Rotavirus antibodies. When the concentration of Adenovirus or Rotavirus antigens in the sample is more than the detection limit, there is a color change in the detection line and the result is positive. When the concentration of Adenovirus or Rotavirus antigens in the sample solution are less than the detection limit, there is no color change in the detection line and the result is negative.

Kit Components

- Test cassettes: 100 (100 tests)
- Stool Sampler vials: 100
- Single-use pipettes: 100

Material Required But Not Provided

- Timer

Sample preparation

- **Solid Stool Samples:** Collect a stool sample in a clean, dry receptacle. Unscrew the top of the stool sampler and use the collection stick to pierce the sample in at least 5 separate locations. Ensure the sample is only collected in the grooves of the sampling stick, excess sample may lead to invalid results. Return the lid to the sampler vial and tighten the lid, then shake the sampler vigorously.
- **Liquid Stool Samples:** Collect a stool sample in a clean, dry receptacle. Unscrew the top of the stool sampler and use a single-use pipette to transfer 2 drops (around 70 µl – 85 µl) of liquid stool sample into the sampler vial. Return the lid to the sampler vial and tighten the lid, then shake the sampler vigorously.

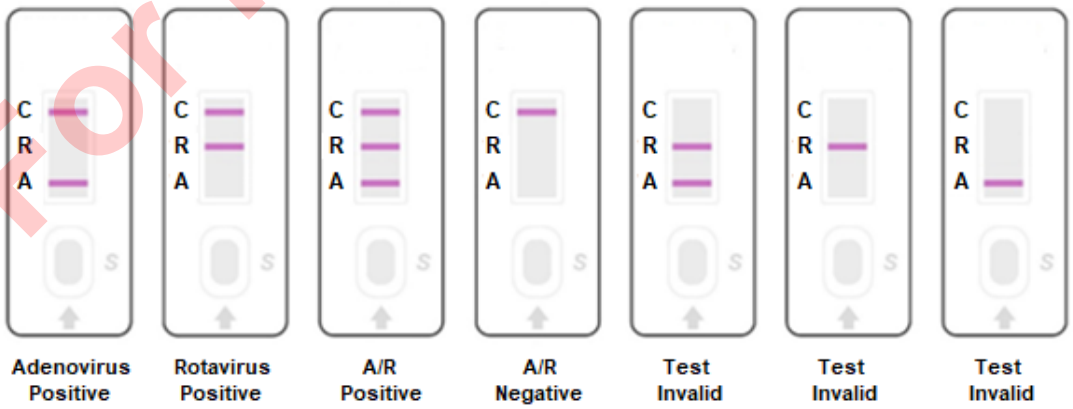
Note: Test samples immediately after extraction. If not used immediately, the extracted sample can be stored at 4 °C for up to 3 days, or stored at -20 °C for longer-term storage. Avoid repeated freeze-thaw cycles.

Assay procedure

1. Take a test cassette and lay it flat on a clean table. Shake the stool sampler vial, then remove the cap and, slowly and vertically add 2 drops (approximately 70 µl – 85 µl) of sample to the sample well on the test cassette. Avoid foaming. One more drop of sample may be added if the sample is too viscous and no movement is observed.
2. Start the timer and leave the cassette at room temperature, then analyze the result before 15 minutes. Results are only valid if taken before 15 minutes.

Results analysis

- **Adenovirus Positive result:** A colored line is observed in both the control (C) section and the Adenovirus (A) section.
- **Rotavirus Positive result:** A colored line is observed in both the control (C) section and the Rotavirus (R) section.
- **Adenovirus and Rotavirus Positive result:** A colored line is observed in the control (C) section, the Rotavirus (R) section, and the Adenovirus (A) section.
- **Negative result**: A colored line is observed in the control (C) section but not the Rotavirus (R) or Adenovirus (A) sections.
- **Invalid result**: No colored line is observed in the control (C) section.



Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Do not use water, PBS, or similar solutions as a negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. No false positive results were observed in 3-15 samples for Typhoid, Rotavirus, Adenovirus, H.Pylori, or Cholera.
8. This kit is for qualitative detection of Adenovirus and Rotavirus Antigen in human stool samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
9. This kit is for research use only and the results are for reference only. It is recommended to use this kit in conjunction with another detection method.
10. All waste should be disposed of appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.