

Instructions for Use

Version: 1.0.1
Revision date: 7-Nov-24

Human Rotavirus Antigen Rapid Test Kit

Catalog No.: abx472033

Size: 40 tests

Storage: Store all reagents at 2-30°C. Keep dry. Do not freeze.

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

Introduction and assay principle

Abbexa's Human Rotavirus Antigen Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Rotavirus antigen present in the samples combines with the colloidal gold particle-labelled Anti-Rotavirus antibodies. When the concentration of Rotavirus antigen 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 Rotavirus antigen in the sample solution is less than the detection limit, there is no color change in the detection line and the result is negative.

Kit Components

- Test cassette
- Dropper
- Stool collection device containing extraction buffer (2 ml)

Material Required But Not Provided

- Timer
- Specimen collection containers

Sample preparation

- **Stool Samples:** Collect stool sample in a clean, dry receptacle. Label the stool collection device with the specimen's ID number. Open the device by unscrewing the top and use the collection stick to pierce the stool sample in at least three different sites to collect approximately 50 mg of feces. Replace the collection stick back within the stool collection device and tighten it closed before shaking vigorously.

Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples. Bring samples to room temperature before carrying out the assay. Unused sample can be stored for up to 6 months at -20°C if not tested within one hour of preparation.

Assay procedure

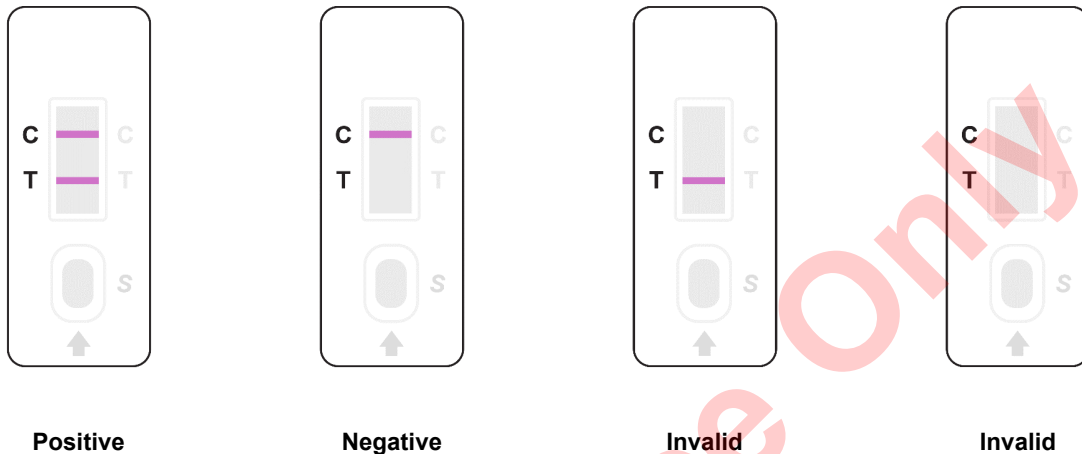
1. Bring all kit components and samples to room temperature.
2. Take a test cassette and lay it flat on a clean table.
3. Hold the stool collection device upright and unscrew the top. Hold the device vertically and dispense 2 drops (70 µl - 85 µl) of the solution into the sample well on the test cassette. Do not overload/ flood the well.
4. Leave at room temperature for 10 minutes, then analyze the result. Do not interpret results after 15 minutes.

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Results analysis

- **Positive result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Negative result:** A colored line is observed in the control (C) section but not the test (T) section.
- **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. Avoid touching the cassette membrane through the sample well or test result window.
6. This kit is for qualitative detection of Human Rotavirus antigen in Human stool samples only.
7. This product is for research use only; a positive result indicates the presence of Rotavirus antigen, but is not sufficient for clinical diagnosis. A negative result indicates no Rotavirus antigen presence, or concentrations below the sensitivity of the test.
8. All waste should be disposed of appropriately. The waste of this test should be considered as a contaminant and should be properly disposed of according to correct biosafety procedures.

Technical Support

For troubleshooting and technical assistance, please contact us at support@abbexa.com.