



INSTRUCTIONS FOR USE

ONE STEP TEST Rotavirus Antigen **Detection in Feces**

Only for professional in vitro diagnos

Product Code: TROV01 Rotavirus Test Device dete

cts Rotavirus antigens in human feces

INTENDED USE

BACKGROUND INFORMATION

Rotavirus has been recognized for 30 years as the most common cause of infectious gastroenteritis in infants and young children. By contrast, the role of rotavirus as a pathogen in adults has long been underappreciated. Spread by fecal-oral transmission, rotavirus infection in adults typically manifests with nausea, malaise, headache, abdominal cramping, diarrhea, and fever. Infection can also be symptomless. Rotavirus is the most common agent responsible for acute gastroenteritis, mainly in young children. Its discovery in 1973 and its association with infantile gastroenteritis represented a very important advancement in the study of gastroenteritis not caused by acute bacterial infection. Rotavirus is fransmitted by oral-fecal route with an incubation period of 1-3 days. Specimen collections taken within the second and riffith days of the illness are ideal for antigen detection, rotavirus may still be found while diarrhea continues. Rotaviral gastroenteritis may result in mortality for populations at risk such as infants, the elderly and immunocompromised patients. In temperate climates rotavir infections cour mainly in the winter months. Endemics as well as epidemics affecting some thousand people have been reported. With hospitalised children suffering from acute enteric disease up to 50 % of the analysed specimen were positive for rotavirus. The viruses replicate in the cell nucleus and tend to be host specific producing a characteristic cytopathic effect (CPE). Because rotavirus is extremely difficult to culture, it is unusual to use isolation of the virus in diagnosing an infection. Instead a variety of techniques have been developed to detect rotavirus in human feces.

REAGENTS

coated particles with anti-rotavirus antibodies and anti-rotavirus antibodies immobilized on the membrane

METHOD

Rotavirus Test Device is a rapid, qualitative, immunochromatographic assay for detection of rotavirus in human feces samples. There are anti-rotavirus antibodies immobilized on the "T' test area of this test. While performing the test; sample dropped to the sample well reacts with the particles coated with anti-rotavirus antibodies. This complex migrates to the other end of the marbrane by capillary action. If there is rotavirus in the sample, they bind to anti-rotavirus antibodies in the "T" test area and create a visible, colored signal that means the test result is positive. If the sample does not contain rotavirus, colored line does not appear in the "T" test area. This means the test result is negative. As a procedural control, colored line always appears in the "C" control area indicating that proper volume of sample has been introduced and membrane wicking has occurred.

PRECAUTIONS AND LIMITATIONS

- STORAGE

Test device should be kept away from direct sunlight, moisture, heat and radiation sources. Store at 4-30°C (39-86°F). Do not freeze. The test in the original packaging retains stable until expiry date at storage conditions. The test device should be used in maximum one hour after the foll is opened.

Kit components: Test devices, droppers, sample collection tubes with dilution buffer and instructions for use

Additional materials required but not provided: Sample collection containers, centrifuge and timer.

Additional materials recommended but not provided: Micropipettes to deliver mentioned amount of sample in the test procedure, negative and positive control materials.

TEST PROCEDURE

Take the test device out of its p 1. Feces sample: Feces sample must be collect the container to collect sufficie

Foces sample must be collected in clean, dry, waterproof container containing no detergents, preservatives and transport media. Take 1 - 2 ml or 1 - 2 g foces sample to the container to collect sufficient quantity of rotavirus antigen (if present). Best results will be obtained if the assay is performed within 6 hours after collection. Collected samples are bost ord 3 days at 2 FC if not lested within 6 hours. For long term storage samples should be kept below -20°C. 2. To process feed samples:

Cor solid samples:

Cor solid samples:

Unscrew the cap of the sample collection tube. Stab the sample collection applicator randomly into the feed sample in at least 3 different sites to collect approximately 50 mg of feeds. Screw the applicator to the sample collection tube with the sample on it.

ng of feces. Screw up or or liquid samples; or liquid samples; lold the dropper vertically and draw feces sample. Screw the cap of the sample collection tube a sample collection tube upright and liquid samples.

rmation of any air bubbles.

Depending on the rotavirus concentration in the sample, the test can reter 20 minutes should be recarded as invalid.

NOTE: If the extracted sample does not migrat supernatant and dispense it to the sample well of











INTERPRETATION OF RESULTS

gative: Only one colored line is visible in "C" area, indicating that Rotavirus antigen does not exist.

sitive: Two colored lines are visible in "C" and "T" areas, indicating that Rotavirus antigen exists.

concentration of Rotavirus antigen may cause a faith line in "T" area; Even such a faith line in "T" area a should be regarded as "positiv

alid: No colored line is visible or only one colored line is visible in "T" area; test should be repeated using a new test device.

NEGATIVE INVALID POSITIVE TOYO INVALID

QUALITY CONTROL

Tests have built in procedural quality control features. When the test is complete, the user will see a colored line in the "C" colored line in the "T" and "C" area on positive samples. The appearance of the control "C" line is considered as an internal sufficient volume of sample was added as well as valid test result. It is recommended that a negative control and a poperformance as an external control. Users should follow appropriate federal, state and local guidelines concerning the extern

PERFORMANCE EVALUATION

Sensitivity: 99,99 % Specificity: 99 % Confidence interval: 95 % +Predictive V: 99 % -Predictive V:99.99 %

140 Commence means a comment of the same test has been confirmed with 100 replicates of negative, Rotavirus low positive, Rotavirus low positive, Rotavirus high positive values valu

Inter Assay
Between-run presicion of the same test has been confirmed with 10 independent assays with the same negative, Rotavirus low positive, Rotavirus medium positive and Rotavirus high positive values were correctly determined for each Rotavirus high positive samples. Negative, Rotavirus low positive, Rotavirus high positive samples.

CROSS REACTIVITY

REFERENCES

Neisseria gonorrhea Group B Streptococcus Proteus vulgaris Enterococcus faecium Hemophilus influenzae

a E., D. Roscoe, L. Book, B. Bone, L. Browne, and V. Mah. 'The Utility Of Latex/Agglutination Assays **TÜRKLAB TIBBİ MALZEMELER SAN. TİC. A.Ş.**A.O.S.B 10040 Sok. No;20 Çiğli-İzmir / TÜRKEY

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