

Methadone (MTD) Rapid Test Kit (Colloidal Gold)

Product Name

Methadone (MTD) Rapid Test Kit (Colloidal Gold)

Intended Use

Adopting highly specific antibody-antigen reaction and immunochromatographic technique, the test kit is used for qualitative detection of methadone in urine and is suitable for screening of methadone abuse.

Test Principle

This kit uses specific antigen-antibody reaction, combining Gold Immunochromatography Assay experiment, highly specific and sensitive competition method to detect the methadone in urine.

When testing, urine chromatography upward by capillary action. If the concentration of methadone in urine is below 300ng/mL, colloidal gold antibodies can not combine all of methadone, thus colloidal gold antibodies combines with the methadone conjugates on the film, appear a red line in the test area (T). If the concentration of methadone in urine is higher than 300ng/mL, no red line appears due to the competition reaction in the test area. Whether methadone exists in the urine, a red line will appear in the control area (C).

Main Components

Sample pad, colloidal gold marked pad, nitrocellulose membrane, absorbent paper and PVC board.

Specimen requirement

The urine sample has to be collected in the plastic urine cup or glass containers which are clean, dry, without preservatives. If the urine is turbid, take the supernatant after centrifugation for detection, or filter out the precipitation before detection.

The sample should be tested as soon as possible, and should not be stored at room temperature for a long time. Urine samples should be used immediately, and may be stored at 2-8°C for 3days. For long-term preservation please store at -20 °C. Avoid freeze and thaw repeatedly.

Storage and Expiry

Store as packaged in the sealed pouch at 4-30°C, avoid hot and sunshine, dry place, valid for 24 months. DO NOT FREEZE. Some protective measures should be taken in hot summer and cold winter to avoid high temperature or freeze-thaw.

Test Procedure

Place the reagent at room temperature for 30 minutes before use, and return to room temperature (20°C-30°C. Instructions must be read entirely before taking the test. Do not open the inner packaging until ready, it must be used as soon as possible if opened (Humidity:20%~90%,Temp:10°C-50°C) .

1. **Strip:** Remove the test device from the sealed pouch, put the end of the test strip print with arrow

into the specimen (about 50-60μl), the interface of urine should not exceed the MAX line, take it out after 5s and place the test stripe on a clean and level surface.

Cassette: Take off the outer packing, put the cassette onto the desk with the sample window up. Drop 3 drops of specimen (100μl) vertically into the circular groove of cassette.

2. Observe the test results immediately within 5-10 minutes, the result is invalid over 10 minutes.

Interpretation of Result

POSITIVE: One red line appears in the control region(C). No apparent red or pink line appears in the test region (T).

NEGATIVE: Two distinct red lines appear. One line should be in the control region (C) and the other line should be in the test region (T).

INVALID: No red bands appear or control line fails to appear, indicating that the operator error or reagent failure. Verify the test procedure and repeat the test with a new testing device.

Limitations

1. The kit is only suitable for testing of MTD in urine.
2. The kit is for the qualitative detection reagents, can not determine the content of MTD in urine.
3. The kit is only used for screening, the negative result can't be used as basis for diagnosis.

Attentions

1. For in vitro diagnostic only. For urine sample test only.
2. Please make sure that the right amount of sample is used for testing, too much or too little sample volume may lead to wrong results.
3. Please use within the validity period; please check if the packaging is intact before use. The test results are invalid beyond the test time.
4. During the interpretation time, as long as two lines can be observed clearly visible (no matter the color is deep or light), the result should be judged as negative.