

## CDIA™ Methcathinone Colloidal Gold Test Cassette (Urine)

Cat. No.: DTSJYJ045

Pkg. Size: 25T

### Intended Use

The CDIA™ Methcathinone Colloidal Gold Test Cassette (Urine) is a lateral flow chromatographic immunoassay for the detection of methcathinone and its metabolites in human urine.

### General Description

Methcathinone is a monoamine alkaloid and psychoactive stimulant, a substituted cathinone. It is used as a recreational drug due to its potent stimulant and euphoric effects and is considered to be addictive, with both physical and psychological withdrawal occurring if its use is discontinued after prolonged or high-dosage administration. It is usually snorted, but can be smoked, injected, or taken orally. Methcathinone is listed as a Schedule I controlled substance by the Convention on Psychotropic Substances and the United States' Controlled Substances Act, and as such it is not considered to be safe or effective in the treatment, diagnosis, prevention, or cure of any disease, and has no approved medical use. Possession and distribution of methcathinone for the purpose of human consumption is illegal under any/all circumstances in the United States and is either illegal or highly regulated in most jurisdictions world-wide. The CDIA™ Methcathinone Colloidal Gold Test Cassette (Urine) is a rapid urine-screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of methcathinone in urine. The CDIA™ Methcathinone Colloidal Gold Test Cassette (Urine) yields a positive result when the methcathinone in urine exceeds 500 ng/mL.

### Principle of the Test

Methcathinone antigen is coated on the test region of the nitrocellulose membrane of the strips, and methcathinone antibody is labeled with colloid gold. During a test, the colloid gold labeled antibody coated in the strip move forward along the membrane, and a red line will show up when the antibody gathers with the antigen in the test line; if methcathinone in the sample is over the detection limit, line T is blank; on the other wise, if methcathinone in the sample is less than the detection limit, line T is red.

### Materials Provides

1. Cassette device, 25T.
2. One instruction.

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## Materials Required but Not Provided

- 1.Specimen collection container
- 2.Timer

## Specimen Collection and Preparation

**Urine Assay:** The urine specimen must be collected in a clean and dry container. Urine collected at any time of the day may be used. Urine specimens exhibiting visible particles should be centrifuged, filtered, or allowed to settle to obtain clear specimen for testing.

**Specimen Storage:** Urine specimens may be stored at 2-8°C for up to 48 hours prior to testing. For long-term storage, specimens may be frozen and stored below -20°C. Frozen specimens should be thawed and mixed before testing.

## Assay Operation

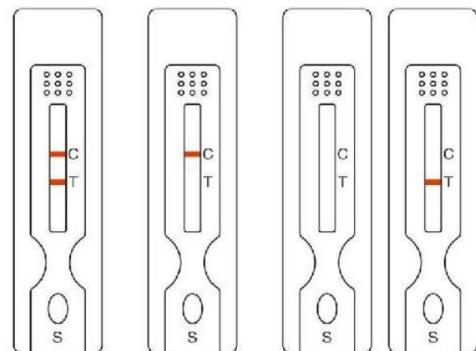
- 1.Specimen collection and shake the sample collection device several times.
2. Remove the test device from its foil pouch by tearing along the notch and use it as soon as possible.
3. Squeeze 3 drops (~75uL) of the sample solution in the sample well of the cassette.
4. Read the test results in 5 minutes. It is important that the background is clear before the result is read. Do not read results after 10 minutes.

## Results

**Negative:** Two lines appear. One colored line should be in the control region (C) and another apparent colored line should be in the test line region (T).

**Positive:** One colored line appears in the control line region(C). No line appears in the test line region (T).

**Invalid:** Line C has no color, which indicates the strips are invalid. In this case, please read the instructions again, and redo the assay with new cassette device.



## Quality Control

A procedural control is included in the test. A red line appearing in the control region (C) is considered an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking and correct procedural technique.

Control standards are not supplied with this kit; however, it is recommended that positive and negative controls be tested as good laboratory testing practice to confirm the test procedure and to verify proper test performance.

## Limitation

1. The CDIA™ Methcathinone Colloidal Gold Test Cassette (Urine) provides only a qualitative, preliminary analytical result. A secondary analytical method must be used to obtain a confirmed result. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method.
2. It is possible that technical or procedural errors, as well as other interfering substances in the urine specimen may cause erroneous results.
3. Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. If adulteration is suspected, the test should be repeated with another urine specimen.
4. A positive result indicates presence of the drug or its metabolites but does not indicate level of intoxication, administration route or concentration in urine.
5. A negative result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cut-off level of the test.
6. Test does not distinguish between drugs of abuse and certain medications.

## Detection Limit (LOD)

500 ng/mL

## Storage

The kit can be stored at room temperature or refrigerated (2-30°C). The test cassette is stable through the expiration date printed on the sealed pouch. The test cassette must remain in the sealed pouch until use. DO NOT FREEZE. Do not use beyond the expiration date.

## Notice for Operations

1. Please do the assay following the instruction. Do not touch the membrane of the strip.
2. This cassette device is used for only once; please do not use it repeatedly.