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MSKESSON

hCG Urine Test **DIPSTICK**

CLIA WAIVED

A rapid, one step test for the qualitative detection of human chorionic

For professional in vitro diagnostic use only.

MFR # **32-111**

INSTRUCTIONS FOR USE

INTENDED USE

The McKesson hCG Urine Test – Dipstick is a rapid chromatographic immunoassay for the qualitative detection of human chorionic gonadotropin (hCG) in urine to aid in the early detection of pregnancy.

SUMMARY

Human chorionic gonadotropin (hCG) is a glycoprotein hormone produced by the developing placenta shortly after fertilization. In normal pregnancy, hCG can be detected in both urine and serum as early as 7 to 10 days after conception. 1-4 hCG levels continue to rise very rapidly, frequently exceeding 100 mIU/mL by the first missed menstrual period,²⁻⁴ and peaking in the 100,000-200,000 mIU/mL range about 10-12 weeks into pregnancy. The appearance of hCG in both urine and serum soon after conception, and its subsequent rapid rise in concentration during early gestational growth, make it an excellent marker for

the early detection of pregnancy. The McKesson hCG Urine Test - Dipstick is a rapid test that qualitatively detects the presence of hCG in urine specimen at the sensitivity of 25 mIU/mL. The test utilizes a combination of monoclonal and polyclonal antibodies to selectively detect elevated levels of hCG in urine. At the level of claimed sensitivity, the McKesson hCG Urine Test - Dipstick shows no cross-reactivity interference from the structurally related glycoprotein hormones hFSH, hLH and hTSH at high physiological levels.

The McKesson hCG Urine Test – Dipstick is a rapid chromatographic immunoassay for the qualitative detection of human chorionic gonadotropin (hCG) in urine to aid in the early detection of pregnancy. The test utilizes a combination of antibodies including mouse monoclonal anti-hCG antibodies and goat polyclonal anti-hCG antibodies to selectively detect elevated levels of hCG. The assay is conducted by immersing the test strip in a urine specimen and observing the formation of colored lines. The specimen migrates via capillary action along the membrane to react with the colored conjugate.

Positive specimens react with the specific colored antibody conjugates and form a colored line at the test line region of the membrane. Absence of this colored line suggests a negative result. To serve as a procedural control, a colored line will always appear at the control line region if the test has been performed properly.

REAGENTS

The test strip contains mouse anti-beta hCG antibody conjugated to colloidal gold and goat anti-alpha hCG antibody coated on

- For professional in vitro diagnostic use only. Do not use after
- The test strip should remain in the closed canister until use. • All specimens should be considered potentially hazardous and
- handled in the same manner as an infectious agent. • The test strip should be discarded in a proper biohazard container after testing.

STORAGE AND STABILITY

the expiration date.

Store as packaged in the closed canister at 36-86°F (2-30°C). The test strip is stable through the expiration date printed on the label of the closed canister. The test strip must remain in the closed canister until use, and is stable 12 months after opening the canister. DO NOT FREEZE. Do not use beyond the expiration date.

SPECIMEN COLLECTION AND PREPARATION

should be thawed and mixed before testing.

A urine specimen must be collected in a clean and dry container. A first morning urine specimen is preferred since it generally contains the highest concentration of hCG; however, urine specimens collected at any time of the day may be used. Urine specimens exhibiting visible precipitates should be centrifuged, filtered, or allowed to settle to obtain a clear specimen for testing.

48 hours prior to testing. For prolonged storage, specimens may

be frozen and stored below -4°F (-20°C). Frozen specimens

Specimen Storage Urine specimens may be stored at 36-46°F (2-8°C) for up to

MATERIALS Materials Provided

Timer

• Test strins (in a canister) Instructional insert

Materials Required But Not Provided • Specimen collection container

DIRECTIONS FOR USE Allow the test strip, urine specimen and/or controls to equilibrate

to room temperature (59-86°F; 15-30°C) prior to testing. 1. Remove the test strip from the closed canister and use it as

CONTROL (C) - TEST (T)

-MAXIMUM LINE

(MAX)

POSITIVE

the result is read.

strips are stable for 12 months.

INVALID

INTERPRETATION OF RESULTS

(Please refer to the illustration above) POSITIVE*: Two distinct red lines appear. One line should be in the control region (C) and another line should be in the test region (T).

NEGATIVE

soon as possible. Immediately close the canister tightly after

removing the required number of test strips. Record the initial

opening date on the canister. Once opened, the remaining test

2. With arrows pointing toward the urine specimen, immerse the

3. Place the test strip on a non-absorbent, flat surface, start the

timer and wait for the red line(s) to appear. Read the result at

3-4 minutes. Do not interpret results after the appropriate

read time. It is important that the background is clear before

when immersing the strip. See the illustration below.

test strip vertically in the urine specimen for at least 5

seconds. Do not pass the maximum line (MAX) on the test strip

NOTE: A sample hCG concentration below the cut-off level of this test might result in a weak line appearing in the test region (T) after an extended period of time. A line in the test region (T) seen after the read time could be indicative of a low hCG level in the sample. If such results are seen, it is recommended that the test be repeated with a new sample in 48-72 hours or that an alternate confirmation method is used.

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

INVALID: Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test strip. If the problem persists, discontinue using the test kit immediately and contact **Technical Service at** 1-877-441-7440, Option 2.

***NOTE:** The intensity of the red color in the test line region (T) will vary depending on the concentration of hCG present in the specimen. However, neither the quantitative value nor the rate of increase in hCG can be determined by this qualitative test.

Internal procedural controls are included in the test. A red line Accuracy appearing in the control region (C) is the internal procedural control. It confirms sufficient specimen volume and correct procedural technique. A clear background is an internal negative background control. If the test is working properly, the background in the result area should be white to light pink and not interfere with the ability to read the test result.

It is recommended that a positive hCG control (containing ≥ 25 mIU/mL hCG in urine) and a negative hCG control (containing "0" mIU/mL hCG) be evaluated to verify proper test performance with each new lot, each new shipment, monthly as a check on storage. each new untrained operator and as otherwise required by your lab internal quality system procedures.

LIMITATIONS

QUALITY CONTROL

- 1. Very dilute urine specimens, as indicated by a low specific gravity, may not contain representative levels of hCG. If pregnancy is still suspected, a first morning urine specimen should be collected 48 hours later and tested.
- 2. False negative results may occur when the levels of hCG are below the sensitivity level of the test. When pregnancy is still suspected, a first morning urine specimen should be collected 48 hours later and tested. 3. Very low levels of hCG (less than 50 mIU/mL) are present in urine specimen shortly after implantation. However, because a
- significant number of first trimester pregnancies terminate for natural reasons,⁵ a test result that is weakly positive should be confirmed by retesting with a first morning urine specimen 4. This test reliably detects intact hCG up to 500,000 mIU/mL. It does not reliably detect hCG degradation products, including
- used to detect hCG may detect hCG degradation products and therefore may disagree with the results of this rapid test. 5. A number of conditions other than pregnancy, including trophoblastic disease and certain non-trophoblastic neoplasms including testicular tumors, prostate cancer, breast cancer, and lung cancer, cause elevated levels of hCG.⁶⁻⁷ Therefore, the presence of hCG in urine specimen should not be used to diagnose

free-beta hCG and beta core fragments. Quantitative assays

pregnancy unless these conditions have been ruled out. 6. This test provides a presumptive diagnosis for pregnancy. A confirmed pregnancy diagnosis should only be made by a physician after all clinical and laboratory findings have been evaluated.

EXPECTED VALUES

注

Negative results are expected in healthy non-pregnant women and healthy men. Healthy pregnant women have hCG present in their urine and serum specimens. The amount of hCG will vary greatly with gestational age and between individuals.

The McKesson hCG Urine Test – Dipstick has a sensitivity of 25 mIU/mL, and is capable of detecting pregnancy as early as 1 day after the first missed menses.

PERFORMANCE CHARACTERISTICS

Test - Dipstick

A multi-center clinical evaluation was conducted comparing the

results obtained using the McKesson hCG Urine Test - Dipstick to another commercially available urine membrane hCG test. The study included 150 urine specimens: both assays identified 72 negative and 78 positive results. The results demonstrated 100% overall agreement (for an accuracy of >99%) of the McKesson hCG Urine Test - Dipstick when compared to the other urine membrane hCG test.

Reference hCG Method

72

78 0 McKesson hCG Urine

Sensitivity and Specificity The McKesson hCG Urine Test – Dipstick detects hCG at a concentration of 25 mIU/mL or greater. The test has been standardized to the W.H.O. Third International Standard. The addition of LH (300

mIU/mL), FSH (1,000 mIU/mL), and TSH (1,000 µIU/mL) to negative

(0 mIU/mL hCG) and positive (25 mIU/mL hCG) specimens showed

no cross-reactivity. Interfering Substances The following potentially interfering substances were added to

hCG negative and positive specimens.

All substances listed in mg/dL unless otherwise noted. Ethanol Acetaminophen 1,000 Acetone Estriol Acetylsalicylic Acid 20 Estrone 3-Sulfate 10 Acetoacetic Acid Gentisic Acid 20 Ampicillin 20 Glucose 2,000 Ascorbic Acid 1.000 20 Hemoglobin 20 Atropine Heroin Albumin 2.000 Ibuprofen 20 β-Hydroxybutyrate salt 2,000 Methadone 10 Benzoylecgonine Methamphetamine Bilirubin Methanol 10% 20 Brompheniramine Morphine 0.6 Caffeine 20 Oxalic Acid 40 10 Cannabinol Phenothiazine 20 Clomiphene 100 Phenylpropanolami 20 10 Cocaine Pregnanediol 10 20 Codeine Salicylic Acid 500 Cholesterol Tetracycline 20

Ephedrine None of the substances at the concentration tested interfered in

Triglycerides

Theophylline

Uric Acid

1,200

2,000

20

20

20

80

Creatine

DMS0

EDTA

Dextromethorphan

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Call 1-877-441-7440, Option 2, for technical assistance. Questions? Call 1-800-777-4908

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