Rapid Ethylglucuronide (ETG) Test Dipcard Instruction Insert

Catalogue No.: DOA1ALC04

Please read all the information in this Insert before performing the test.

Instruction of use for testing of Ethylglucuronide (ETG). Rapid Ethylglucuronide (ETG) Test Dipcard is a rapid, screening test for the qualitative detection of Ethylglucuronide (ETG) in human urine at the cut off of 500ng/ml. For in vitro diagnostic use only.

For Forensic use only.

INTENDED USE

Rapid Ethylglucuronide (ETG) Test Dipcard is an immuno-chromato graphic assay for the qualitative determination of the presence of Ethylglucuronide (ETG) at the cut off of 500ng/ml.

This assay provides only a preliminary analytical test result. Gas Chromatography/Mass spectrometry (GC/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated.

SUMMARY

Ethyl Glucuronide (EtG) is a direct metabolite of alcohol. Presence in urine may be used to detect recent alcohol intake, even after alcohol is no longer measurable. Traditional laboratory methods detect the actual alcohol in the body, which reflects current intake within the past few hours (depending on how much was consumed). The presence of EtG in urine is a definitive indicator that it can be detected in the urine for 3 to 4 days after drinking alcohol, even alcohol is eliminated from the body. Therefore, EtG is a more accurate indicator of the recent intake of alcohol than measuring for the presence of alcohol itself. The EtG test can aid in the diagnosis of drunk driving and alcoholism, which has important significance in the forensic identification and medical examination.

PRINCIPLE

Rapid Ethylglucuronide (ETG) Test Dipcard is a competitive immunoassay that is used to screen for the presence of Ethylglucuronide (ETG) in urine. It is chromatographic absorbent device in which, drugs within a urine sample, competitively combined to a limited number of drug monoclonal antibody (mouse) conjugate binding sites.

When the test is activated, the urine is absorbed into each test Dipcard by capillary action, mixes with the respective drug monoclonal antibody conjugate, and flows across a pre-coated membrane. When drug within the urine sample is below the detection level of the test, respective drug monoclonal antibody conjugate binds to the respective drug-protein conjugate immobilized in the Test Region (T) of the test Dipcard. This produces a colored Test line in the Test Region (T) of the strip, which, regardless of its intensity, indicates a negative test result.

When sample drug levels are at or above the detection level of the test, the free drug in the sample binds to the respective drug monoclonal antibody conjugate, preventing the respective drug monoclonal antibody conjugate from binding to the respective drug monoclonal antibody conjugate from binding to the respective drug-protein conjugate immobilized in the Test Region (T) of the device. This prevents the development of a distinct colored band in the test region, indicating a preliminary positive result.

To serve as a procedure control, a colored line will appear at the Control Region (C), of each strip, if the test has been performed properly.

WARNINGS AND PRECAUTIONS

- Immunoassay for in vitro diagnostic use only.
- Do not use after expiration date.
- The test Dipcard should remain in the sealed pouch until use. The used test Dipcard should be discarded according to local
- regulations.

CONTENTS OF THE KITS

- Drug Test Dipcard.
- Leaflet with instruction for use.

ADDITIONAL REQUIREMENTS

- A clean, dry, plastic or glass container to collect the urine.
- Timer (watch or clock)
- External controls

STORAGE AND STABILITY

- Store at 39 \sim 86 $^{\circ}$ F (4 \sim 30 $^{\circ}$ C) in the sealed pouch up to the expiration date.
- Keep away from direct sunlight, moisture and heat.
- DO NOT FREEZE.

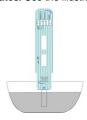
SPECIMEN COLLECTION AND PREPARATION

- · Collect urine sample with a clean, dry container. Urine collected at any time of the day may be used.
- · For best results, test specimens immediately following collection.
- Urine specimens may be refrigerated (2-8° C) and stored up to forty-eight hours. For longer storage, freeze the samples (-20° C or below).
- Bring frozen or refrigerated samples to room temperature before testing.

HOW TO PERFORM THE TEST?

Test must be in room temperature (15° C to 30° C)

- 1. Open the sealed pouch by tearing along the notch. Remove the test dipcard from the pouch.
- 2. Hold the one side of the dipcard with one hand. Use the other hand to pull out the cap and expose the absorbent end.
- 3. Immerse the absorbent end into the urine sample for about 10 seconds. Make sure that the urine level is not above the line printed on the front of the device.
- Lay the dipcard flat on a clean, dry, non-absorbent surface.
 Read the results at 5 minutes. The drug test results remain stable for up to thirty minutes. See the illustration.



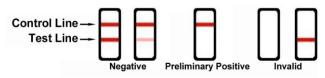
REANDING THE RESULTS

Preliminary positive (+)

A rose-pink band is visible in each control region. If no color band appears in the appropriate test "T" region, a preliminary positive result is indicated for the corresponding drug of that specific test zone.

If a rose-pink band is visible in each control region and the appropriate test "T" region, it indicates that the concentration of the corresponding drug of that specific test zone is absent or below the detection limit of the test.

If a color band is not visible in the control "C" region or a color band is only visible in the test "T" region, the test is invalid. Another test should opened and run to re-evaluate the specimen. If test still provides an invalid result, please contact the distributor from whom you purchased the product. When calling, be sure to provide the lot number for the



Note: There is no meaning attributed to line color intensity or width. Any visible line is considered to be a line.

Certain lines may appear lighter or thinner than other lines. ANY COLORED LINE VISIBLE IN THE TEST "T" REGION, NO MATTER HOW DARK OR FAINT, SHOULD BE INTERPRETED AS A NEAGATIVE RESULT.

IMPORTANT: This assay provides only a preliminary analytical test result. A more specific alternative chemical method must be used in order to obtain a confirmed analytical result. GC/MS is the preferred confirmatory method. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug test result, particularly when preliminary positive results are indicated.

What Is A False Positive Test?

The definition of a false positive test would be an instance where a substance is identified incorrectly by Rapid Ethylglucuronide (ETG) Test Dipcard. The most common causes of a false positive test are cross reactants. Certain foods and medicines, diet plan drugs and nutritional supplements may cause a false positive test result with this

What Is A False Negative Test?

The definition of a false negative test is that the initial drug is present but isn't detected by Rapid Ethylglucuronide (ETG) Test Dipcard. Diluted or adulterated urine specimens may cause a false negative

TEST LIMITATIONS

- 1. This test has been developed for testing urine samples only. No other fluids have been evaluated. DO NOT use this device to test substances other than urine.
- 2. There is a possibility that technical or procedural errors, as well as interfering substances in the urine specimen may cause erroneous results.
- 3. Adulterated urine samples may produce erroneous results. Strong oxidizing agents such as bleach (hypochlorite) can oxidize drug analyte. If a sample is suspected of being adulterated, obtain a new sample in a different, unused, cup.
- 4. This test is a qualitative screening assay. It is not designed to determine the quantitative concentration of drugs or the level of intoxication.
- 5. A positive result does not indicate level or intoxication, administration route or concentration in urine.
- 6. 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.

QUALITY CONTROL

A procedural control is included in the test. A 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 practice to confirm the test procedure and to verify proper test performance. Quality control should be run with each new lot, and every 30 days to check storage stability. Positive and negative control should give the expected results.

Users can commercially obtain control materials (For example from Sigma-Aldrich Corporation). The concentration of drug(s) in positive and negative controls are approximately 50% above and below the cutoff concentration of the assay.

PERFORMANCE CHARACTERISTICS

Specificity and cross reactivity

To test the cross reactivity of the test, Rapid Ethylglucuronide (ETG) Test Dipcard was used to test with drug metabolites and drug structurally similar compounds in urine. All the components were added to drug-free normal human urine. The following structurally related compounds produced positive results with the test when tested at levels equal to or greater than the concentrations listed below.

Ethylglucuronide (ETG)	
Ethyl-β-D-glucuronide	500
Ethyl-β-D-glucuronide-D5	500

Interfering substances

Clinical urine samples may contain substances that could potentially interfere with the test. The following compounds were added to drug-free urine or drug positive urine containing ETG with the concentration 50% below the cutoff and the concentration 50% above the cutoff, respectively. All potential interfering substances were added at a concentration of 100µg/mL. The urine specimens were tested with Rapid Ethylglucuronide (ETG) Test Dipcard. None of the urine samples showed any deviation from the expected results.

Benzylpenicillin	Hydralazine	Phenelzine
Benzoic acid	Hydrochlorothiazide	Prednisolone
Bilirubin	Hydrocortisone	Prednisone
Benzydamine	o-Hydroxyhippuric	d,I-Propanolol

	acid	
Caffeine	p-Hydroxytyramine	d-Pseudoephedri
		ne
Carbamazepine	Ibuprofen	Quinacrine
Cephalexin	Indomethacin	Quinine
Chloralhydrate	Iproniazid	Quindine
Chloramphenicol	d,l-Isoproterenol	Ranitidine
Chlorothiazide	Isoxsuprine	Salicylic acid
Chlorpheniramine	Ketamine	Serotonin
d,I-Chlorpromazine	Ketoprofen	Sulfamethazine
Cholesterol	Labetalol	Sulindac
Clonidine	Lisinopril	Tetracycline
Cimetidine	Loperamide	Tetrahydrozoline
Citalopram	Meperidine	Thiamine
Cortisone	Meprobamate	Thioridazine
Creatinine	Methoxyphenamine	d, I-Thyroxine
Deoxycorticostero	Methylphenidate	Tolbutamine
ne		
Dexamethasone	Nadolol	Tolbutamide
Dextromethorphan	Nalidixic acid	Trifluoperazine
Diclofenac	Naproxen	Tryptamine
Diflunisal	Niacinamide	Uric acid
Digoxin	Nicotine	Verapamil
Diphenhydramine	Nifedipine	Zomepirac
Ephedrine	Norethindrone	
β-Estradiol	Noscapine	

Effect of Urinary Specific Gravity

The specific gravity studies were conducted on different specific gravity including 1.002,1.010, 1.020, 1.030, 1.040 specimens with drug free urine containing ETG at 50% below and 50% above cutoff level. Each sample was tested by Rapid Ethylglucuronide (ETG) Test Dipcard. The results demonstrate that varying ranges of urinary specific gravity do not affect the test result.

Effect of Urinary pH

The pH of an aliquot negative urine pool is adjusted to a pH range of 3 to 9 in 1 pH unit increments and spiked with ETG at 50% below and 50% above cutoff levels. Each sample was tested by Rapid Ethylglucuronide (ETG) Test Dipcard. The result demonstrate that varying ranged of pH do not interfere with the performance of the

APPLICABLE STANDARDS

Draft Guidance for Industry and FDA Staff: Premarket Submission and Labeling Recommendations for Drugs of Abuse Screening Tests EN ISO 18113-1:2011, EN ISO 18113-2:2011, EN ISO 13612:2002, EN ISO 13640:2002.

MANUFACTURER FOR:

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INDEX OF SYMBOLS

[]i	Consult instructions for use	紫	Keep away from sunlight
IVD	In vitro diagnostic for use	†	Keep dry
4°C 30°C	Store between 4 ~ 30 ° C	2	Do not reuse

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