Phenethylamine A (PHE A) Rapid Test Kit

Technical Manual

(GICA)

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1 Principle and Application

The test kit is used for detecting Phenethylamine A (PHE A) in samples such as urine, water, and more.

The kit is developed using the principle of competitive colloidal gold immunochromatography assay (GICA). After the sample solution is added to sample hole, if PHE A is present, it will bind with gold labeled antibodies, thereby preventing the labeled antibodies from binding to the PHE A conjugates on the nitrocellulose membrane.

If the content of PHE A in sample solution is less than detection limit, it will make the test ("T") line colored, and the result is negative. If the content is greater than detection limit, no color reaction will be produced, and the result is positive.

2 Technique Data

Limit of detection:

Urine 3ppb

Water 20ppb

3 Kit Content

Package specification	20T/Kit
Test device	20
Instruction	1

4 Materials Required but Not Supplied

Equipment: Centrifuge, graduated transfer pipette.

Micropipettes: single-channel (20-200μL)

5 Sample Pre-treatment

Please note that the labware must be clean. Use disposable pipette tips to avoid contamination of interference results.

5.1 Sample pretreatment step:

5.1.1 Urine treatment:

(1) Collect a clear urine supernatant for testing. If the urine sample is cloudy, centrifuge it at 4000 rpm for 10 minutes and then use the supernatant for testing.

5.1.2 Water treatment:

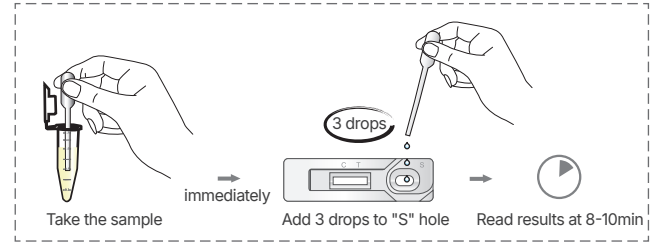
(1)Collect a clear water sample. If the sample is cloudy, centrifuge it at 4000 rpm for 10 minutes. Take the clear supernatant and mix it with purified water in a 1:3 ratio, then shake well before testing.

6 Test Steps

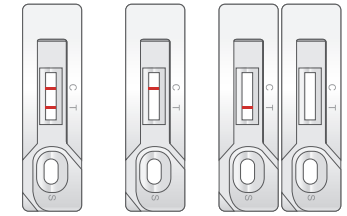
(1)Tear the foil pouch, take out of the test card, and put it on a flat, clean work surface.

(2) Pipette the processed sample with the provided dropper, then add 3 drops (approximately 60μL) vertically and slowly into the sample hole("S").

(3) Read the result at room temperature in 8 to 10 minutes.



7 Results Judgement



Negative: Test("T") line and control("C") line both appear in the result window. It indicates that the concentration of PHE A in the sample is below the detection limit, or absent.

Positive: Only control("C") line appears in the result window.It indicates that the concentration of PHE A in the sample is above the detection limit.

Invalid: If the control("C") line does not appear, the result might be considered invalid.

8 Notice

8.1 Don't use the expired or damaged products.

8.2 When the test card is taken out of the refrigerator, it should be restored to the room temperature and then opened. The opened test card should be used as soon as possible to avoid failure after being affected by moisture.

8.3 Avoid touching the white nitrocellulose membrane in the middle of the detection card.

8.4 In order to avoid cross-contamination, the droppers cannot pipet another Solution after pipetting one.

8.5 The sample solution to be examined needs to be clear and free of turbid particles. Otherwise, it is prone to lead to blockage, non-obvious color development and other abnormalities, affecting the determination of the experimental results.

9 Storage Conditions

The kit shall be stored at 2°C to 30°C (35.6°F to 86°F) in dry environment.

Shelf life: 12 months. The date of manufacture is presented in the label of the box.