Amphetamine (AMP) Rapid Test Kit

Catalog No.: abx092191

Size: 20 tests / 40 tests / 400 tests / 2000 tests / 10000 tests

Detection limit: 1000 ng/ml

Storage: Store all reagents at 2-30°C. Keep dry.

Application: For quantitative detection of amphetamine (AMP) and its metabolites in human urine.

Introduction and assay principle

Amphetamine, also known as alpha-methylphenethylamine, is a powerful central nervous system stimulant with multiple mechanisms, including inhibiting monoamine oxidase, blocking the uptake of adrenergic and dopamine, and stimulating the release of monoamines. Amphetamine is one of the most restricted and controlled drugs. Long term abuse can lead to weight loss, teeth grinding, ulcers, chronic poisoning and abscesses. Intravenous injection abuse can lead to infection complications (such as AIDS, hepatitis, sepsis and bacterial endometritis), anxiety, and hallucinations.

Abbexa's Amphetamine (AMP) Antigen Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Amphetamine in the samples combines with the colloidal gold particle-labelled Amphetamine antibody. This complex will diffuse to the test area which is coated with Amphetamine-BSA antigen which competitively binds to the gold-particle labelled Amphetamine monoclonal antibody in the sample. The control area is coated with goat anti-mouse IgG. The specific antigen-antibody reaction and the GICA principle are combined to qualitatively detect the content of Amphetamine and its metabolites in human urine.

Kit Components (20 tests)

- Test cassettes with pipettes
- Sample diluent: 1 vial

Material Required But Not Provided

- Timer
- Urine cup or container

Sample preparation

- **Urine:** Use a disposable cup or clean container to collect samples. If the specimen shows precipitates the urine should be centrifuged, filtered or allowed to settle to obtain a clear supernatant for testing. The urine should be used immediately after collection for testing, or stored at 2-8°C for up to 48 hours prior to testing. Specimens can be frozen and stored below -20°C.

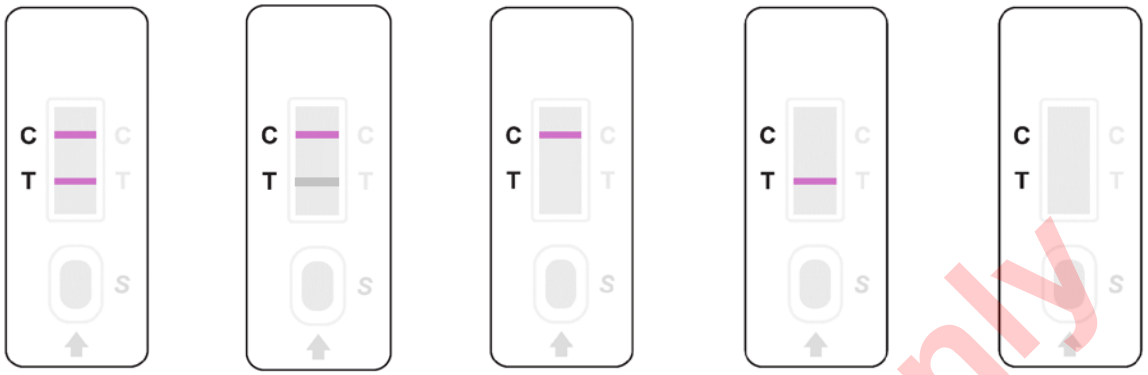
Assay procedure

1. Bring samples, test cassettes and sample diluent to room temperature prior to testing.
2. Take a test cassette and lay it flat on a clean table. Using the provided pipette, slowly and vertically add 3-4 drops (approximately 80 µl – 100 µl) of sample to the sample well on the test cassette. Avoid foaming.
3. Leave at room temperature for 5 min, then analyze the result. The result is only valid for 10 minutes.

Results analysis

- **Negative result:** A colored line is observed in both the control (C) section and the test (T) section.

- **Positive result**: A colored line is observed in the control (C) section but not the test (T) section.
- **Invalid result**: No colored line is observed in the control (C) section.



Negative **Negative** **Positive** **Invalid** **Invalid**

Notes

1. The test cassettes should be brought to room temperature before use.
2. A positive result does not indicate intoxication, administration route or concentration in urine.
3. A positive result might be obtained from certain foods or food supplements.
4. The test does not distinguish between drugs or abuse and certain medications.
5. After opening the aluminum foil, use the test cassette as soon as possible.
6. Samples should be clear with no visible particles, turbidity or bacterial pollution.
7. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
8. Avoid touching the cassette membrane through the sample well or test result window.
9. This kit is for qualitative detection of Amphetamine in human urine samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
10. This kit is for research use only and the results are for reference only. It is recommended to use this kit in conjunction with another detection method.
11. No cross-reactivity was observed with the following substances tested at 100 µg/ml: Thebaine, Oxazepam, Chlorpromazine, Caffeine, Temazepam, Amobarbital, Trifluoperazine, Lorazepam, Secobarbital, PCP, Diazepam, Phenobartital, Procaine, Clonazepam, Tyramine, d-Propoxyphene Pentermine, Verapamil, Naltrexone, Ketamine, Zomepirac, Phencyclidine, Morphine, Ranitidine, Lidocaine, Oxymorphone, Promethazine, Imipramine, Oxycodone, Phenylethylamine, a, Thioridazine, Hydrocodone, Diphenhydramine, Trimipramine, Codeine, Perphenazine, Maprotiline, Norcodeine, -8-THC, Amitriptyline, Hydromorphone, -9-THC, Nortriptyine, Levorphanol, Chlopheniramine, Glucose, Dextromethorphan, (+)-Brompheniramine, (+)-Epinephrine, Serotonin, Histamine, Arterenol, Tryptophan, Atrophine, Gentisic acid, Erythromycin, Cocaine, Theophyline, Ibuprofen, Estradiol, Methadone, Salicylic acid, Ascorbic acid, Acetone, Propanol, Acetaminophen, Albumin, Sodium Chloride, Sulindac.
12. All waste should be disposed appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.