



Multi-Drug & Single-Drug Screening Test (ORAL FLUID)

Rapid Test Solutions for Drug Detection via Saliva

Kits offer reliable and practical rapid test solutions for detecting drugs through saliva. These quick immunological tests are designed to simultaneously and qualitatively detect drugs and their metabolites present in saliva. Saliva test kits are used not to detect past usage but to determine whether the person is under the influence of substances at the time of testing.

Rapid Immunological Tests

Saliva testing is a sensitive screening method that enables the detection of drugs ingested by the body in a short period of time. Test results are obtained within minutes and assist in making an accurate preliminary assessment, allowing for quick and effective decision-making.



Some Application Areas:

Probation Institutions

Drug use among prisoners can be monitored during entry and supervision processes.

Traffic Inspections

It can be used to quickly determine if drivers are under the influence of substances.

Schools and Educational Institutions

A fast and effective solution for monitoring drug use among students.

Airlines

It can be used to check whether pilots and cabin crew are under the influence of substances, providing a quick and reliable method to ensure flight safety.

Rapid and Qualitative Detection

Saliva testing is a versatile method for detecting drugs. These tests do not identify past drug use but determine whether the individual is under the influence of substances at the time of the test. By simultaneously screening for different drugs, the test clearly identifies which substances are present, guiding further intervention processes.

Saliva tests offer an effective and reliable method that contributes to public health, public safety, and individual security.

Reliable Results, Practical Application

The drug detection tests developed for saliva are notable for their portability and ease of use. They can be applied in any environment with ease, providing immediate results and quick feedback to the user.

Saliva Drug Test Kits: Advantages, Ease of Use, and Limitations

Saliva drug test kits are very easy to use. The test cassette included in the kit is used by directly applying it to the saliva sample. The test result can be obtained within a few minutes. For accurate and reliable results, it is important to follow the usage instructions.

Saliva drug test kits offer several advantages, primarily due to their ability to deliver rapid results. One of these advantages is that the test outcome is available almost instantly. Additionally, their simple usage allows for personal application without the need for an expert. The accuracy of the test is also quite high, with a low probability of false positives or false negatives.

However, saliva drug test kits do have some limitations. These kits can detect drugs that have been used within the last few days. For detecting long-term use, other testing methods should be considered. Moreover, environmental factors such as high temperature or humidity can affect the accuracy of the test. Providing a saliva sample may also be uncomfortable for some individuals.

PARAMETERS	CUT-OFF (ng/mL)
AMPHETAMINE (AMP)	50
METHAMPHETAMINE (MET)	50
EXTASY (MDMA)	50
BENZODIAZEPINES(BZO)	20
COCAINE (COC)	30
OPIATE (OPI)	40
MARIJUANA (THC)	25



Subject

This report covers the laboratory studies and analyses conducted to determine the accuracy rates of the saliva drug test kit (TAG-SDK-0012). The objective is to assess the test kit's capacity to achieve accuracy rates at specified threshold levels.

Test Methods

The test studies were conducted using reference substances with CAS numbers listed in Table 1- These standard substances were prepared in a synthetic saliva matrix as negative and positive sample mixtures at appropriate threshold levels. Samples were prepared at the required concentrations for validation studies and then analyzed.

Analyses were performed using a Liquid Chromatography-Mass Spectrometry (LC/MS-MS) device. The concentrations measured in the LC/MS-MS analyses were found to be consistent with the tested sample matrix and targeted threshold values, allowing the validation process to proceed. Table 1 provides detailed information on the measured concentrations of each substance and the standards used. The test results demonstrate that the TAG-SDK-0012 saliva drug test kit operates in accordance with the targeted accuracy rates. These findings provide significant evidence for the reliability and effectiveness of the product.

Notes

The results of this report are prepared as references for product development processes. Test methods were conducted in accordance with current analytical standards.

Measurement Data

The test kits were applied to the samples in accordance with the user manual, and the results were carefully recorded. For each substance, 100 test kits were used, and the results were collected accordingly. The data obtained were analyzed to calculate accuracy rates. The results are detailed in Table 2.

$$\text{Accuracy (\%)} = \left(\frac{\text{True Positives} + \text{True Negatives}}{\text{True Positives} + \text{True Negatives} + \text{False Positives} + \text{False Negatives}} \right) \times 100$$

Control Study	Sample 0		Sample 1		Sample 2		Accuracy (%)
	Neg	Poz	Neg	Poz	Neg	Poz	
Alcohol (ALC)	100	0	97	3	4	96	96,50
AB-PINACA (ABP)	100	0	98	2	2	98	98,00
Amphetamine (AMP)	100	0	99	1	2	98	98,50
Barbiturate (BAR)	100	0	99	1	3	97	98,00
Buprenorphine (BUP)	100	0	99	1	2	98	98,50
Benzodiazepines (BZO)	100	0	96	4	2	98	97,00
Cocaine (COC)	100	0	100	0	1	99	99,50
Cotinine (COT)	100	0	99	1	2	98	98,50
Fentanyl (FYL)	100	0	100	0	1	99	99,50
Ketamine (KET)	100	0	99	1	3	97	98,00
6-Monoacetylmorphine (6-MAM)	100	0	100	0	1	99	99,50
Ecstasy (MDMA)	100	0	99	1	2	98	98,50
Methylenedioxypropylvalerone (MDPV)	100	0	96	4	2	98	97,00
Methamphetamine (MET)	100	0	99	1	2	98	98,50
Methadone (MTD)	100	0	99	1	2	98	98,50
Opiates (OPI)	100	0	97	3	2	98	97,50
Oxycodone (OXY)	100	0	96	4	1	99	97,50
Phencyclidine (PCP)	100	0	100	0	3	97	98,50
Pregabalin (PGB)	100	0	98	2	1	99	98,50
Propoxyphene (PPX)	100	0	98	2	1	99	98,50
Synthetic Marijuana (K2)	100	0	99	1	2	98	98,50
Marijuana (THC)	100	0	100	0	3	97	98,50
Tramadol (TML)	100	0	98	2	3	97	97,50
UR-144 (K3)	100	0	99	1	2	98	98,50

Evaluation of Results

No adverse effect of the sample matrix on the tests was observed. The average accuracy rate of all tests was determined to be **98.23%**. These tests are suitable for use as screening tools for the detection of sedatives, narcotics, stimulants, and drugs.