

# We can tell you're on 'Cloud Nine'

## DRUGCHECK<sup>®</sup>

SINGLE-DIP URINALYSIS  
K2/SPICE TEST

### *K2/Spice onsite test now available!*

DrugCheck<sup>®</sup> is excited to offer a dip test for K2 or "Spice" as one of the first screens for synthetic marijuana on the market. The K2/Spice Test is available in single strip or single dip cassette format for greater flexibility and cost effectiveness.

#### Test Performance

A study was conducted by a third-party lab using known positive urine from six donors. Each specimen was screened with the K2/Spice Test. The laboratory then processed and tested each specimen following forensic guidelines.

Donor	JWH-018 Pentanoic Acid			JWH-073 Butanoic Acid		
	K2/Spice Test	Lab confirmation	Result (ng/ml)	K2/Spice Test	Lab confirmation	Result (ng/ml)
1	Positive	Positive	1.5	Negative	-	-
2	Positive	Positive	65.2	Positive	Positive	2.3
3	Positive	Positive	107.1	Positive	Positive	7.0
4	Positive	Positive	116.4	Positive	Positive	3.3
5	Positive	Positive	269.8	Positive	Positive	6.8
6	Positive	Positive	396.4	Positive	Positive	20.4



A precision study for the DrugCheck K2/Spice Test was performed by three individuals observing test results to determine the random error of visual interpretation. The test results were found to have no significant differences among the three observers.

DrugCheck K2/Spice Test	Control Con. ng/ml	No. of Tested	No. of positive			No. of borderline			No. of negative		
			1	2	3	1	2	3	1	2	3
JWH-018 and JWH-073	0	42							42	42	42
	25	42							42	42	42
	75	42	40	41	40	2	1	2			

**K2/Spice Test is specific to JWH-018 pentanoic acid and JWH-073 butanoic acid**

Compounds	Concentration	Cross reactivity
JWH-018 pentanoic acid	50 ng/ml	100%
JWH-073 butanoic acid	50 ng/ml	100%

Note: See DrugCheck product insert DC236 for complete data on test strip performance.



K2/Spice Test is for forensic use only

K2 or “Spice” is an illicit drug that is comprised of a mixture of herbs and spices, typically sprayed with a synthetic compound that is chemically similar to THC, the psychoactive ingredient in marijuana. The most common chemical compounds of K2 include HU-210, HU-211, JWH-018, and JWH-073. K2 is often marketed in head shops, tobacco shops, or over the Internet as incense or “fake weed.” Unknown product origin and amount of chemical compound on the organic material are just two of the many risks associated with K2/Spice.

## Street names

Bliss, Black Mamba, Bombay Blue, Cloud Nine, Fake Weed, Genie, Spice, Zohai

## Looks like

K2 is typically sold in small, silvery plastic bags of dried leaves and marketed as incense that can be smoked. It is said to resemble potpourri.

## Methods of abuse

K2 products are usually smoked in joints or pipes, but some users make it into a tea.

## Affect on mind

Psychological effects are similar to those of marijuana and include paranoia, panic attacks, and giddiness.

## Affect on body

Physiological effects of K2 include increased heart rate and increase of blood pressure. It appears to be stored in the body for long periods of time, and therefore the long-term effects on humans are not fully known.

## Drugs causing similar effects

Marijuana

## Overdose effects

There have been no reported deaths by overdose.

## Legal status in the United States

On Tuesday, March 1, 2011, DEA published a final order in the Federal Register temporarily placing five synthetic cannabinoids into Schedule I of the CSA. The order became effective on March 1, 2011. The substances placed into Schedule I are 1-pentyl-3-(1-naphthoyl) indole (JWH-018), 1-butyl-3-(1-naphthoyl) indole (JWH-073), 1-[2-(4-morpholinyl) ethyl]-3-(1-naphthoyl)indole (JWH-200), 5-(1,1-dimethylheptyl)-2-[(1R,3S)-3-hydroxycyclohexyl]-phenol (CP-47,497), and 5-(1,1-dimethyloctyl)-2-[(1R,3S)-3-hydroxycyclohexyl]-phenol (cannabicyclohexanol; CP-47,497 C8 homologue). This action is based on a finding by the Administrator that the placement of these synthetic cannabinoids into Schedule I of the CSA is necessary to avoid an imminent hazard to the public safety. As a result of this order, the full effect of the CSA and its implementing regulations including criminal, civil and administrative penalties, sanctions, and regulatory controls of Schedule I substances will be imposed on the manufacture, distribution, possession, importation, and exportation of these synthetic cannabinoids.

## Common places of origin

Manufacturers of this product are not regulated and are often unknown since these products are purchased via the Internet whether wholesale or retail. Several websites that sell the product are based in China. Some products may contain an herb called damiana, which is native to Central America, Mexico, and the Caribbean.

Source: [dea.gov](http://dea.gov) – “Drug Fact Sheet: K2 or Spice”

## DRUGS TESTS AVAILABLE IN DIP CASSETTE OR SINGLE STRIPS

URINALYSIS CUTOFFS	
Alcohol (ALC)	.04%*
Amphetamine (AMP)	1,000 500* 300*
Barbiturates (BAR)	300

Benzodiazepines (BZO)	300 200*
Buprenorphine (BUP)	10 5*
Cocaine (COC)	300 150
Cotinine (COT)	200*
EDDP	100*

Fentanyl (FYL)	200*
Ketamine (KET)	1,000*
K2/Spice	50*
Marijuana (THC)	300* 50 25*
Methadone (MTD)	300

Methamphetamine (MET)	1,000 500 300*
Methylenedioxy-methamphetamine (MDMA)	500
Opiates (OPI)	2,000 300
Oxycodone (OXY)	100

Phencyclidine (PCP)	25
Propoxyphene (PPX)	300
Tramadol (TML)	100*
Tricyclic Antidepressants (TCA)	1,000

\* FORENSIC USE ONLY  
All cutoffs in ng/mL except alcohol