

# Drugs-of-Abuse-Testing

## Quick Reference Guide

Answers for life.



Stimulants	Physical Description	Mode of Administration	Detection Time	Clinical Effects
<b>Amphetamines or Sympathomimetic Amines</b> <b>Also Known As</b> Speed, Ice, Crystal, Amp <b>Pharmaceutical Name</b> Dexedrine*, GlaxoSmithKline Plc. / Benzedrine / Desoxyn*, Abbott Laboratories / Methedrine	<ul style="list-style-type: none"> <li>Coarse powder</li> <li>Crystals</li> <li>Chunks</li> <li>Capsules of various sizes and colors</li> <li>Tablets of various sizes and colors</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> <li>Snorted</li> <li>Smoked</li> <li>Injected</li> </ul>	<b>In Urine (1)</b> <ul style="list-style-type: none"> <li>Amphetamines: 1-3 days, max 9 days</li> <li>Methamphetamines: 60 hours, max 6 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Increased heart rate</li> <li>Elevated blood pressure</li> <li>Appetite suppression</li> <li>Elevated temperature</li> <li>Dizziness</li> </ul> <ul style="list-style-type: none"> <li>Tachycardia, palpitations, and arrhythmias</li> <li>Heightened sense of well-being</li> <li>Increased alertness and energy</li> <li>Restlessness</li> </ul> <ul style="list-style-type: none"> <li>Insomnia</li> <li>Euphoria</li> <li>Toxic psychosis, paranoia, delusions</li> <li>Depression</li> <li>Sedation</li> </ul>
<b>Cocaine</b> <b>Also Known As</b> Coke, Crack, White, Nose Candy, Magic Dust, Snow	<b>Powder Cocaine</b> <ul style="list-style-type: none"> <li>Odorless, white, crystalline powder with a bitter, numbing taste</li> </ul>	<b>Crack Cocaine</b> <ul style="list-style-type: none"> <li>Small, white to tan lumps</li> <li>Snorted</li> <li>Smoked (free-based)</li> <li>Injected</li> </ul>	<b>In Urine (1)</b> <ul style="list-style-type: none"> <li>2-3 days, max 22 days in chronic users</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Central nervous system stimulation</li> <li>Sympathetic nervous system stimulation</li> <li>Rapid heart rate</li> <li>Vasoconstriction</li> <li>Elevated blood pressure</li> <li>Dilated pupils</li> <li>Mood Elevation</li> </ul> <ul style="list-style-type: none"> <li>Inflated self image</li> <li>Paranoid delusions</li> <li>Impaired performance because of overestimation of abilities</li> <li>Euphoric phase may be followed by dysphoria, agitation, anxiety, and drug craving</li> <li>Toxic psychosis, paranoia, delusions</li> </ul> <ul style="list-style-type: none"> <li>Taken with alcohol: forms cocaethylene resulting in increased toxicity over longer periods.</li> <li>Depression</li> <li>Sedation</li> <li>Depressed respiration</li> <li>Heart failure</li> <li>Seizures</li> </ul>
<b>Ecstasy</b> <b>Also Known As</b> EVE (MDEA), Adam (MDMA), XTC, Pills, Love drug, E <b>Pharmaceutical Name</b> MDMA (3-4 methylenedioxyamphetamine)	<ul style="list-style-type: none"> <li>Tablet</li> <li>Capsules</li> <li>Powder</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> </ul>	<b>In Urine (1)</b> <ul style="list-style-type: none"> <li>1-3 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Hyperthermia</li> <li>Increasing heart rate</li> <li>Increasing blood pressure</li> </ul> <ul style="list-style-type: none"> <li>Involuntary teeth clenching</li> <li>Nausea</li> <li>Muscle tension</li> </ul> <ul style="list-style-type: none"> <li>Faintness</li> <li>Chills or sweating</li> <li>Confusion</li> <li>Depression</li> </ul>
Hallucinogens	Physical Description	Mode of Administration	Detection Time	Clinical Effects
<b>Cannabinoids</b> <b>Also Known As</b> Marijuana, Dope, Weed, Hemp, Hash, Colombian, Grass, THC, Pott <b>Pharmaceutical Name</b> Marinol*, Solvay Pharmaceuticals Inc.	<ul style="list-style-type: none"> <li>Dry, crushed leaves</li> <li>Hand-rolled cigarettes</li> <li>Hard chunks of resin (hashish)</li> <li>Dark, viscous liquid (hashish oil)</li> </ul>	<ul style="list-style-type: none"> <li>Smoked</li> <li>Cooked and eaten in baked goods</li> </ul>	<b>In Urine (1), (2)</b> <b>Smokers:</b> <ul style="list-style-type: none"> <li>1 time only: 1-4 days</li> <li>4 times a week: 1-5 days</li> <li>Moderate users up to 12 days</li> <li>Chronic users up to 22 days</li> </ul> Different sources claim 20-90 days, 34 hours up to 95 days (1)	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Increased cardiac output</li> <li>Raised pulse rate</li> <li>Acute bronchodilation</li> <li>Photophobia</li> <li>Drop in intraocular pressure</li> </ul> <ul style="list-style-type: none"> <li>Bloodshot eyes</li> <li>Increased appetite</li> <li>Decreased coordination</li> <li>Euphoria</li> <li>Relaxed inhibitions</li> </ul> <ul style="list-style-type: none"> <li>Apathy</li> <li>Hallucinations</li> <li>Intoxicated appearance</li> <li>Subjective slowing of time</li> </ul>
<b>LSD</b> <b>Also Known As</b> Acid <b>Pharmaceutical Name</b> Lysergic Acid Diethylamide	<ul style="list-style-type: none"> <li>White crystalline material</li> <li>Impregnated sugar cubes, blotter paper, gelatin sheets</li> <li>Capsules</li> <li>Tablets</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> </ul>	<b>In Urine (1)</b> <ul style="list-style-type: none"> <li>After typical doses: 24 hours, up to 4 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Vomiting</li> <li>Diarrhea</li> <li>Blood coagulation disorders</li> <li>Hyperthermia</li> <li>Catatonia</li> <li>Flashbacks</li> <li>Dilated pupils</li> <li>Tachycardia</li> <li>Elevated blood sugar</li> </ul> <ul style="list-style-type: none"> <li>Elevated body temperature</li> <li>Salivation</li> <li>Tearing</li> <li>Tremors</li> <li>Tingling of the extremities</li> <li>Hyperactive reflexes</li> <li>Decreased coordination</li> <li>Visual illusions</li> </ul> <ul style="list-style-type: none"> <li>Alterations in intensity of colors and sounds</li> <li>Changes in perception and mood</li> <li>Panic attacks</li> <li>Subjective slowing of time</li> <li>Euphoria</li> <li>Loss of personal boundaries (depersonalization)</li> <li>Sensory crossover ("hear" color, "see" sound)</li> </ul>
<b>Phencyclidine</b> <b>Also Known As</b> PCP, Angel Dust, Peace Pill, Crystal	<ul style="list-style-type: none"> <li>Pills</li> <li>Capsules</li> <li>Powder</li> <li>Liquid</li> <li>Crystals</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> <li>Injected</li> <li>Snorted</li> <li>Smoked</li> </ul>	<b>In Urine</b> <ul style="list-style-type: none"> <li>14 days</li> <li>Up to 30 days in chronic users</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Elevated blood pressure</li> <li>Involuntary rapid movements of the eyeball (nystagmus) vertically and/or horizontally</li> </ul> <ul style="list-style-type: none"> <li>Sweating</li> <li>Nausea and vomiting</li> <li>Generalized tonic-clonic seizures</li> <li>Psychotropic effects mirroring schizophrenia</li> </ul> <ul style="list-style-type: none"> <li>Extreme aggressive behavior</li> <li>Analgnesia</li> <li>Euphoria</li> <li>Intoxicated appearance</li> </ul>
Narcotics/Analgesics/Opiates	Physical Description	Mode of Administration	Detection Time	Clinical Effects
<b>Opiates</b> <b>Also Known As</b> Smack, Tar, Chasing the Tiger <b>Pharmaceutical Name</b> Heroin / Morphine / Codeine / Hydromorphone / Oxycotin*, Purdue Pharma LP. / Morphine Sulphate / Dilaudid*, BASF K&F Corp. / Percodan*, DuPont Merck Pharmaceutical Comp. / Paracodin / Lorphan / Vicodin*, Knoll Pharmaceutical Comp. / Oxycotin*, Purdue Pharma LP.	<ul style="list-style-type: none"> <li>White, brown, or black powder</li> <li>Liquids</li> <li>Tablets</li> <li>Capsules</li> <li>Injectable</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> <li>Injected</li> <li>Snorted</li> <li>Smoked</li> </ul>	<b>In Urine (1)</b> <ul style="list-style-type: none"> <li>10 hours to 6 days, max 10 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Central nervous system depression</li> <li>Suppressed pain sensation</li> <li>Suppressed emotional response to pain</li> <li>Lightheadedness</li> </ul> <ul style="list-style-type: none"> <li>Dizziness</li> <li>Sedation</li> <li>Weakness</li> <li>Pupillary constriction</li> <li>Nausea and vomiting</li> <li>Constipation</li> </ul> <ul style="list-style-type: none"> <li>Skin flushing</li> <li>Reduced respiratory rate</li> <li>Euphoria</li> <li>Analgnesia</li> <li>Drowsiness</li> </ul>
<b>Methodone</b> <b>Also Known As</b> Amidone, Fizzie <b>Pharmaceutical Name</b> Dolophine*, Eli Lilly and Comp. / Vicodin*, Knoll Pharmaceutical Comp. / Methadone / L-Polamidon*, Aventis Pharma / Physeptone / Methadose	<ul style="list-style-type: none"> <li>White crystalline powder</li> <li>Tablets</li> <li>Liquid</li> <li>Injectable</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> <li>Injected</li> </ul>	<b>In Urine</b> <ul style="list-style-type: none"> <li>3 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Central nervous system depression</li> <li>Suppressed pain sensation</li> <li>Suppressed emotional response to pain</li> <li>Lightheadedness</li> </ul> <ul style="list-style-type: none"> <li>Dizziness</li> <li>Sedation</li> <li>Weakness</li> <li>Pupillary constriction</li> <li>Constipation</li> </ul> <ul style="list-style-type: none"> <li>Blurred vision</li> <li>Excessive perspiration</li> <li>Reduced libido</li> <li>Urinary retention</li> <li>Reduced respiratory rate</li> </ul>
<b>Propoxyphene</b> <b>Pharmaceutical Name</b> Darvon*, Dolophine*, Amytal*, Seconal*, Tuinal*, Eli Lilly And Comp. / Novopropoxyn	<ul style="list-style-type: none"> <li>Capsules</li> <li>Tablets of various sizes and colors</li> <li>White powder</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> </ul>	<b>In Urine</b> <ul style="list-style-type: none"> <li>6 hours to 2 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Pupillary constriction</li> <li>Blurred vision</li> <li>Sedation (or insomnia)</li> <li>Headache</li> <li>Nausea</li> <li>Vomiting</li> </ul> <ul style="list-style-type: none"> <li>Suppression of mild to moderate pain</li> <li>Analgnesia</li> <li>Euphoria</li> <li>Intoxication</li> <li>Mild depression</li> </ul> <ul style="list-style-type: none"> <li>Seizures</li> <li>Toxic psychosis</li> <li>Disorientation</li> <li>Confusion</li> <li>Delusions</li> <li>Hallucinations</li> </ul>
<b>Buprenorphine</b> <b>Also Known As</b> Subutex <b>Pharmaceutical Name</b> Temgesic*, Essex Pharma GmbH / Subutex	<ul style="list-style-type: none"> <li>Tablets</li> </ul>	<ul style="list-style-type: none"> <li>Oral (sublingual)</li> <li>Intravenous injection by Addicts</li> </ul>	<b>In Urine (3)</b> <ul style="list-style-type: none"> <li>2-3 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Drowsiness</li> <li>Nausea</li> <li>Vomiting</li> </ul> <ul style="list-style-type: none"> <li>Sweating</li> <li>Dizziness</li> <li>Mood changes</li> </ul> <ul style="list-style-type: none"> <li>Hypotension (low blood pressure)</li> <li>Euphoric feeling</li> <li>Reduction in psychomotor performance</li> </ul>
Depressants/Sedatives/Hypnotics	Physical Description	Mode of Administration	Detection Time	Clinical Effects
<b>Benzodiazepines</b> <b>Also Known As</b> Bennies, Rophies (Rohypnol) <b>Pharmaceutical Name</b> Ativan*, American Home Products Corp. / Dalmane / Halcion*, Upjohn Comp. / Klonopin / Rivotril / Librium*, ICN Pharmaceuticals, Inc. / Serax / Valium*, Hoffmann-La Roche Inc. / Xanax	<ul style="list-style-type: none"> <li>Crystalline powder of various colors</li> <li>Tablets of various colors</li> <li>Capsules</li> <li>Liquid</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> <li>Injected</li> </ul>	<b>In Urine</b> <ul style="list-style-type: none"> <li>Therapeutic dose: 3-7 days</li> <li>Extended dosage or chronic use (1 or more years): 4 to 6 weeks</li> </ul> <b>In Serum and Plasma</b> <ul style="list-style-type: none"> <li>12 hours to 2 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Depression</li> <li>Drowsiness</li> <li>Dizziness</li> <li>Lightheadedness</li> </ul> <ul style="list-style-type: none"> <li>Mild to moderate motor incoordination</li> <li>Nausea</li> <li>Constipation</li> </ul> <ul style="list-style-type: none"> <li>Dry mouth</li> <li>Anxiety suppression</li> <li>Lethargy</li> <li>Fatigue</li> </ul>
<b>GHB</b> <b>Also Known As</b> Liquid Ecstasy, Liquid X, G-Juice, Liquid E <b>Pharmaceutical Name</b> Gamma Hydroxybutyrate	<ul style="list-style-type: none"> <li>Liquid</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> </ul>	<b>In Urine (4), (5)</b> <ul style="list-style-type: none"> <li>30 minutes to 12 hours</li> <li>GHB is extensively metabolized and rapidly eliminated in urine and oral fluid</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Drowsiness</li> <li>Euphoria</li> <li>Dizziness</li> </ul> <ul style="list-style-type: none"> <li>Nausea</li> <li>Visual disturbances</li> <li>Unconsciousness</li> </ul> <ul style="list-style-type: none"> <li>Hypotension</li> <li>Bradycardia</li> <li>Respiratory Depression</li> </ul>
<b>Ethyl Alcohol</b> <b>Also Known As</b> Distilled Spirits, Beer, Wine, etc. <b>Pharmaceutical Name</b> Ethanol	<ul style="list-style-type: none"> <li>Bottled and canned beverages</li> <li>Also found in mouthwashes, cough syrups, and over-the-counter cold preparations.</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> </ul>	<b>In Urine</b> <ul style="list-style-type: none"> <li>1 to 12 hours</li> </ul> <b>In Serum and Plasma</b> <ul style="list-style-type: none"> <li>1 to 12 hours</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Intoxication</li> <li>Loss of motor control</li> <li>Depression of reflexes</li> <li>Depression of heart rate</li> <li>Lethargy</li> </ul> <ul style="list-style-type: none"> <li>Loss of inhibitions</li> <li>Sleepiness</li> <li>Insomnia</li> <li>Aggressive behavior</li> <li>Stupor</li> </ul> <ul style="list-style-type: none"> <li>Coma</li> <li>Death</li> <li>Liver disease</li> <li>Alcoholism</li> <li>Delirium tremens</li> </ul>
<b>Barbiturates</b> <b>Also Known As</b> Barbis, Downers, Tranqs <b>Pharmaceutical Name</b> Amytal*, Eli Lilly and Comp. / Butisol*, McNeil Laboratories, Inc. / Nembutal*, Abbott Laboratories Corp. / Seconal*, Eli Lilly and Comp. / Tuinal*, Eli Lilly and Comp. / Gemonil / Ancalixit / Novopentobarb / Solfoton / Phenobarbital	<ul style="list-style-type: none"> <li>Tablets</li> <li>Capsules</li> <li>Liquid</li> <li>White powder</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> <li>Muscular injection</li> <li>Intravenous injection</li> </ul>	<b>In Urine</b> <ul style="list-style-type: none"> <li>Short acting: 2 days</li> <li>Long acting: 2 to 3 weeks</li> </ul> <b>In Serum and Plasma</b> <ul style="list-style-type: none"> <li>Short acting: 2 to 3 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Central nervous system depression</li> <li>Cardiovascular system depression</li> <li>Decreased heart rate</li> <li>Decreased blood pressure</li> <li>Sedation</li> </ul> <ul style="list-style-type: none"> <li>Anxiety suppression</li> <li>Euphoria</li> <li>Anesthesia</li> <li>Decreased mental acuity</li> <li>Slowed speech</li> <li>Hypnotic</li> </ul> <ul style="list-style-type: none"> <li>Decreased smooth and cardiac muscle function</li> <li>Decreased myocardial contractility</li> <li>Hypotension</li> <li>Depressed respiratory function</li> </ul>
<b>Methaqualone</b> <b>Also Known As</b> Ludes, Quad / Qay, Mandrex <b>Pharmaceutical Name</b> Quaalude / Sopor / Parest	<ul style="list-style-type: none"> <li>White crystals</li> <li>Tablets</li> </ul>	<ul style="list-style-type: none"> <li>Oral</li> <li>Injected</li> </ul>	<b>In Urine</b> <ul style="list-style-type: none"> <li>14 days</li> </ul>	<b>Drug Effects</b> <ul style="list-style-type: none"> <li>Selectively depressed reflexes</li> <li>Increased muscle tone and motor activity</li> <li>Decreased myocardial contractility</li> <li>Hypotension</li> </ul> <ul style="list-style-type: none"> <li>Tingling sensations or numbness throughout body</li> <li>Headache</li> <li>Dry mouth</li> <li>Loss of appetite</li> <li>Nausea and vomiting</li> </ul> <ul style="list-style-type: none"> <li>Euphoria</li> <li>Sedation</li> <li>Hypnosis</li> <li>Increased sociability and self confidence</li> <li>Depression of the brain's emotional inhibitory centers</li> </ul>

This chart provides general background on Drugs-of-Abuse-Testing (DAT). The figures are estimates based on patients or study subjects with normal physiology (especially kidney and liver function). Information contained in this poster is obtained from several sources and is not intended to substitute for analogous information that may be listed in the product package inserts.

- References:
- Verstraete A. Detection Times of Drugs of Abuse in Blood, Urine and Oral Fluids. In: The Drug Monitor 2004; 26: 200-205.
  - Smith-Kline A. et al. Urinary excretion of 11-nor-9-carboxy-delta9-tetrahydrocannabinols in frequent and infrequent drug users. In: J Anal Toxicol. 1995; 21(3): 223-22.
  - Marquet P, Kintz P. Therapeutic Drug Monitoring of high dose buprenorphine: why and how? at: www.tandf.co.uk/journals/buprenorphine.htm (2004-12-02).
  - Baselt R. C. Disposition of Drugs and Chemicals. In: Man, 5th Edition
  - Brenneman R. et al. Pharmacokinetics and Excretion of Gamma-Hydroxybutyrate (GHB) in Healthy Subjects. In: J Anal Toxicol 2004; 28 (8): 625-30.

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