

## Current Cutoff Levels for Toxicology Tests (NOT RAPID TESTS)

| <b>Immunoassay Initial Test (Forensic Cutoffs)</b> |  |  |
|--|--|--|
| <b>Drug Class</b>                                  | <b>Immunoassay Initial Screen Cutoff</b> | <b>Analyte the Immunoassay is Most Reactive To</b> |
| Cannabinoids                                       | 50 ng/mL                                 | 11-nor-Delta-9-THC-9-COOH                          |
| Cocaine  | 150 ng/mL                                | BZE  |
| Amphetamine/<br>Methamphetamine                    | 500 ng/mL                                | +(d) Methamphetamine.                              |
| Ecstasy  | 500 ng/mL                                | MDMA   |
| Opiates (2000 Cutoff)                              | 2000 ng/mL                               | Morphine   |
| Opiates (300 Cutoff)                               | 300 ng/mL                                | Morphine   |
| Phencyclidine                                      | 25 ng/mL                                 | Phencyclidine                                      |
| Barbiturates                                       | 200 ng/mL                                | Secobarbital                                       |
| Benzodiazepines                                    | 200 ng/mL                                | Lormetazepam                                       |
| Methadone  | 300 ng/mL                                | Methadone  |
| Methaqualone                                       | 300 ng/mL                                | Methaqualone                                       |
| Propoxyphene                                       | 300 ng/mL                                | Propoxyphene                                       |
| Ethanol  | 0.010 g/100 mL                           | Ethanol  |
| Oxycodone  | 100 ng/mL                                | Oxycodone  |
| Oxidants   | 200 ug/mL                                | Nitrite  |
| Cotinine   | 250 ng/mL                                | Cotinine   |

| <b>Critical Value Testing*</b> |                |   |   |
|--------------------------------|----------------|---|---|
| <b>Test</b>                    | <b>Cutoff</b>  | <b>Analyte(s) Tested For</b>            | <b>Critical/Action Level</b>                            |
| Ethylene Glycol                | 10 mg/dL       | Ethylene Glycol                         | 20 mg/dL  |
| Volatiles                      | 0.010 g/100 mL | Ethanol, Methanol, Acetone, Isopropanol | Methanol: 0.020 g/100 mL<br>Isopropanol: 0.400 g/100 mL |

| <b>Forensic Confirmation Testing Cutoffs (GC-MS or GC)</b> |                |  |
|--|----------------|--|
| <b>Drug Class</b>  | <b>Cutoff</b>  | <b>Analyte(s) Confirmed</b>  |
| Cannabinoids   | 15 ng/mL       | Delta-9-THC-COOH   |
| Cocaine  | 100 ng/mL      | BZE (Benzoylecgonine)  |
| Amphetamines   | 250 ng/mL      | Amphetamine, Methamphetamine, MDA, MDMA (Ecstasy)  |
| Opiates (2000 Cutoff)                                      | 2000 ng/mL     | Codeine and Morphine   |
| Opiates (300 Cutoff)                                       | 300 ng/mL      | Codeine, Morphine, Hydrocodone, and Hydromorphone  |
| Phencyclidine  | 25 ng/mL       | Phencyclidine  |
| Barbiturates   | 300 ng/mL      | Butalbital, Amobarbital, Pentobarbital, Secobarbital, and Phenobarbital  |
| Benzodiazepines  | 300 ng/mL      | Lorazepam, Desalkylflurazepam, Nordiazepam, 7-Aminoflunitrazepam, Oxazepam, Temazepam, 7-Aminoclonazepam, Alphahydroxytriazolam, Alphahydroxyalprazolam (100 ng/mL cutoff) |
| Methadone  | 300 ng/mL      | EDDP (Methadone metabolite) and Methadone  |
| Propoxyphene   | 300 ng/mL      | Norpropoxyphene (Propoxyphene metabolite)  |
| Ethanol  | 0.010 g/100 mL | Ethanol  |
| Oxycodone  | 300 ng/mL      | Oxycodone and Oxymorphone  |
| Oxidants   | 200 ug/mL      | None – just confirms that the sample had oxidizing adulterants added that may have affected the test outcome   |
| Fentanyl   | 20 ng/mL       | Fentanyl   |
| Ketamine   | 30 ng/mL       | Ketamine   |
| 6-MAM  | 10 ng/mL       | 6-Monoacetylmorphine (Heroin Metabolite)   |
| Meperidine   | 100 ng/mL      | Meperidine   |
| Tramadol   | 100 ng/mL      | Tramadol   |
| Cotinine   | 200 ng/mL      | Cotinine and Nicotine  |

| <b>Clinical/Medical/Pain Clinic Confirmation Cutoff Levels (GC-MS or GC)*</b> |   |  |
|---|---|--|
| <b>Drug Class</b>   | <b>Cutoff</b>                                 | <b>Analyte(s) Confirmed</b>  |
| Cannabinoids  | 5 ng/mL                                       | Delta-9-THC-COOH   |
| Cocaine   | 20 ng/mL                                      | BZE  |
| Amines  | 100 ng/mL                                     | Amphetamine, Methamphetamine, Ephedrine, Pseudoephedrine, MDA, and MDMA (Ecstasy)  |
| Opiates (300)   | 50 ng/mL                                      | Codeine, Morphine, Hydrocodone, and Hydromorphone  |
| Phencyclidine   | 2 ng/mL                                       | Phencyclidine  |
| Barbiturates  | 30 ng/mL                                      | Butalbital, Amobarbital, Pentobarbital, Secobarbital, and Phenobarbital  |
| Benzodiazepines   | Listed in () next to analyte.<br>Unit = ng/mL | Lorazepam (20), Desalkylflurazepam (10), Nordiazepam (10), 7-Aminoflunitrazepam (60), Oxazepam (20), Temazepam (40), 7-Aminoclonazepam (60), Alphahydroxytriazolam (20), Alphahydroxyalprazolam (10) |
| 7-AFN   | 60 ng/mL                                      | 7-Aminoflunitrazepam   |
| Methadone   | Listed in () next to analyte.<br>Unit = ng/mL | EDDP (30), Methadone (60)  |
| Propoxyphene  | 30 ng/mL                                      | Norpropoxyphene (Propoxyphene metabolite)  |
| Ethanol   | 0.010 g/100 mL                                | Ethanol  |
| Oxycodone   | 30 ng/mL                                      | Oxycodone and Oxymorphone  |
| Oxidants  | 200 ug/mL                                     | None – just confirms that the sample had oxidizing adulterants added that may have affected the test outcome   |
| Ketamine  | 30 ng/mL                                      | Ketamine   |
| Fentanyl  | 4 ng/mL                                       | Fentanyl   |
| 6-MAM   | 2 ng/mL                                       | 6-Monoacetylmorphine (Heroin Metabolite)   |
| Meperidine  | 10 ng/mL                                      | Meperidine   |
| Tramadol  | 20 ng/mL                                      | Tramadol   |
| Cotinine  | 25 ng/mL                                      | Cotinine, Nicotine   |
| Buprenorphine   | 5 ng/mL (Qualitative Only)                    | Buprenorphine  |

\*NOTE: These tests use the laboratory's current experimentally determined Limit of Quantitation (LOQ) as the cutoff. These LOQ values change occasionally. Call the lab if there are questions.