



## Multi-Drug X(2-20) Drugs Rapid Test Panel with/without Adulteration (Urine)

### Package Insert

Instruction Sheet for testing of any combination of the following drugs:

ACE/AMP/BAR/BZO/BUP/COC/THC/MTD/MET/MDMA/MOP/MQL/OP/PCP/PPX/TCA/TML/  
KET/OXY/COT/EDDP/FYL/K2/6-MAM/MDA/ETG/CLO/LSD/MPD/ZOL/MEP/MDPV/DIA/ZOP/  
MCAT/7-ACL/CAF/CYFYL/CAT/TRO/ALP/PGB/ZAL/MPRD/CNB/GAB/ZD/CAR/ABP(K3)/  
QTP/FLX/UR-144(K4)/KRA/TLD/α-PVP/MES/PAP/CIT/FKET/OZP/RPD/TAP/NNND/SCOP/  
MTZ/HMO/ALC

Including Specimen Validity Tests (S.V.T.) for:

Oxidants/PCC, Specific Gravity, pH, Nitrite, Glutaraldehyde, Creatinine and Bleach

A rapid test for the simultaneous, qualitative detection of multiple drugs and drug metabolites in human urine. For healthcare professionals including professionals at point of care sites. Immunoassay for *in vitro* diagnostic use only.

#### 【INTENDED USE】

The Multi-Drug Rapid Test Panel is a rapid chromatographic immunoassay for the qualitative detection of multiple drugs and drug metabolites in human urine at the following cut-off concentrations:

| Test   | Calibrator  | Cut-off (ng/mL)         |
|--|---|-------------------------|
| Acetaminophen (ACE)                                      | Acetaminophen                                     | 5,000                   |
| Amphetamine (AMP)  | d-Amphetamine                                     | 1,000/500/300           |
| Barbiturates (BAR)                                       | Secobarbital                                      | 300/200                 |
| Benzodiazepines (BZO)                                    | Oxazepam  | 500/300/200/100         |
| Buprenorphine (BUP)                                      | Buprenorphine                                     | 10/5                    |
| Cocaine (COC)  | Benzoyllecgonine                                  | 1,500/300/200/150/100   |
| Marijuana (THC)  | 11-nor-Δ <sup>9</sup> -THC-9 COOH                 | 300/200/150/50/30/25/20 |
| Methadone (MTD)  | Methadone   | 300/200/100             |
| Methamphetamine (MET)                                    | d-Methamphetamine                                 | 1,000/500/300/200       |
| Methylenedioxy-methamphetamine (MDMA)                    | d,l-Methylenedioxy-methamphetamine                | 1,000/500/300           |
| Morphine/Opiate (MOP/OPI)                                | Morphine  | 300/200/100             |
| Methaqualone (MQL)                                       | Methaqualone                                      | 300                     |
| Meperidine (MPRD)  | Normeperidine                                     | 100                     |
| Opiate (OPI)   | Morphine  | 2,000/1,000             |
| Phencyclidine (PCP)                                      | Phencyclidine                                     | 50/25                   |
| Propoxyphene (PPX)                                       | Propoxyphene                                      | 300                     |
| Tricyclic Antidepressants (TCA)                          | Nortriptyline                                     | 1,000/500/300           |
| Tramadol (TML)   | Cis-Tramadol                                      | 500/300/200/100         |
| Ketamine (KET)   | Ketamine  | 1,000/500/300/100       |
| Oxycodone (OXY)  | Oxycodone   | 300/100                 |
| Cotinine (COT)   | Cotinine  | 500/300/200/100/50/10   |
| 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) | 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine | 300/100                 |
| Fentanyl (FYL)   | Norfentanyl                                       | 20/10                   |
| Fentanyl (FYL)   | Fentanyl  | 300/200/100             |
| Synthetic Marijuana (K2)                                 | JWH-018, JWH-073                                  | 50/30/25                |
| 6-Monoacetylmorphine (6-MAM)                             | 6-MAM   | 10                      |
| (±) 3,4-Methylenedioxy-Amphetamine (MDA)                 | (±) 3,4-Methylenedioxy-Amphetamine                | 500                     |
| Ethyl-β-D-Glucuronide (ETG)                              | Ethyl-β-D-Glucuronide                             | 1,500/1,000/500/300     |
| Clonazepam (CLO)   | Clonazepam  | 400/150                 |
| Lysergic Acid Diethylamide (LSD)                         | Lysergic Acid Diethylamide                        | 50/20/10                |
| Methylphenidate (MPD)                                    | Methylphenidate                                   | 300/150                 |
| Methylphenidate (MPD)                                    | Ritalin acid                                      | 1,000                   |
| Zolpidem (ZOL)   | Zolpidem  | 50/25                   |
| Mephedrone (MEP)   | Mephedrone  | 500/100                 |
| 3, 4-methylenedioxy-pyrovallone (MDPV)                   | 3, 4-methylenedioxy-pyrovallone                   | 1,000/500/300           |
| Diazepam (DIA)   | Diazepam  | 300/200                 |

|                                  |                          |                     |
|----------------------------------|--------------------------|---------------------|
| Zopiclone (ZOP)                  | Zopiclone                | 300/50              |
| Methcathinone (MCAT)             | S(-)-Methcathinone       | 500                 |
| 7-Aminoclonazepam (7-ACL)        | 7-Aminoclonazepam        | 300/200/100         |
| Carfentanyl (CFYL)               | Carfentanyl              | 500/250             |
| Cannabinal (CNB)                 | Cannabinal               | 500                 |
| Caffeine (CAF)                   | Caffeine                 | 1,000               |
| Cathine (CAT)                    | (+)-Norpseudoephedrine   | 150                 |
| Tropicamide (TRO)                | Tropicamide              | 350                 |
| Alprazolam (ALP)                 | Alprazolam               | 100                 |
| Pregabalin (PGB)                 | Pregabalin               | 50,000/500          |
| Gabapentin (GAB)                 | Gabapentin               | 2,000               |
| Zaleplon (ZAL)                   | Zaleplon                 | 100                 |
| Carisoprodol (CAR)               | Carisoprodol             | 2,000/1,000/500     |
| AB-PINACA (ABP/K3)               | AB-PINACA                | 10                  |
| Quetiapine (QTP)                 | Quetiapine               | 1,000               |
| Fluoxetine (FLX)                 | Fluoxetine               | 500                 |
| UR-144/K4                        | UR-144 5-Pentanoic acid  | 25                  |
| Kratom (KRA)                     | Mitragynine              | 300                 |
| Tilidine (TLD)                   | Nortilidine              | 50                  |
| Trazodone (TZD)                  | Trazodone                | 200                 |
| Alpha-Pyrrolidinovallone (α-PVP) | Alpha-Pyrrolidinovallone | 2,000/1,000/500/300 |
| Mescaline (MES)                  | Mescaline                | 300/100             |
| Papaverine (PAP)                 | Papaverine               | 500                 |
| Citalopram (CIT)                 | Citalopram               | 500                 |
| Fluoxetine (FKET)                | Fluoxetine               | 1,000               |
| Olanzapine (OZP)                 | Olanzapine               | 1,000               |
| Risperidone (RPD)                | Risperidone              | 150                 |
| Tapentadol (TAP)                 | Tapentadol               | 1,000               |
| N,N-Dimethyltryptamine (NND)     | N,N-Dimethyltryptamine   | 1,000               |
| Scopolamine (SCOP)               | Scopolamine              | 500                 |
| Mirtazapine (MTZ)                | Desmethylmirtazapine     | 500                 |
| Hydromorphone (HMO)              | Hydromorphone            | 500/300/250         |

| Test         | Calibrator | Cut-off |
|--------------|------------|---------|
| Alcohol(ALC) | Alcohol    | 0.02%   |

Configurations of the Multi-Drug Rapid Test Panel come with any combination of the above listed drug analytes with or without S.V.T. This assay provides only a preliminary test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Gas Chromatography/Mass Spectrometry (GC/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated.

#### 【SUMMARY OF ADULTERATION】

Adulteration is the tampering of a urine specimen with the intention of altering the test results. The use of adulterants can cause false negative results in drug tests by either interfering with the screening test and/or destroying the drugs present in the urine. Dilution may also be employed in an attempt to produce false negative drug test results.

One of the best ways to test for adulteration or dilution is to determine certain urinary characteristics such as pH, specific gravity and creatinine and to detect the presence of oxidants/PCC, nitrites or glutaraldehyde in urine.

#### 【PRINCIPLE (FOR DOA TESTS EXCLUDING ALCOHOL)】

During testing, a urine specimen migrates upward by capillary action. A drug, if present in the urine specimen below its cut-off concentration, will not saturate the binding sites of its specific antibody. The antibody will then react with the drug-protein conjugate and a visible colored line will show up in the test region of the specific drug dipstick. The presence of drug above the cut-off concentration will saturate all the binding sites of the antibody. Therefore, the colored line will not form in the test region.

A drug-positive urine specimen will not generate a colored line in the specific test region of the dipstick because of drug competition, while a drug-negative urine specimen will generate a line in the test region because of the absence of drug competition.

To serve as a procedural control, a colored line will always appear at the control region, indicating that proper volume of specimen has been added and membrane wicking has occurred.

#### 【PRINCIPLE OF ADULTERATION】

**Oxidants/PCC (Pyridiniumchlorochromate)** tests for the presence of oxidizing agents such as bleach and hydrogen peroxide. Pyridiniumchlorochromate (sold under the brand name Urine Luck) is a commonly used adulterant.<sup>2</sup> Normal human urine should not contain oxidants of PCC. **Specific gravity** tests for sample dilution. The normal range is from 1.003 to 1.030. Values outside this range may be the result of specimen dilution or adulteration.

**pH** tests for the presence of acidic or alkaline adulterants in urine. Normal pH levels should be in the range of 4.0 to 9.0. Values outside of this range may indicate the sample has been altered.

**Nitrite** tests for commonly used commercial adulterants such as Klear and Whizzies. They work by oxidizing the major cannabinoid metabolite THC-COOH.<sup>3</sup> Normal urine should contain no trace of nitrite. Positive results generally indicate the presence of an adulterant.

**Glutaraldehyde** tests for the presence of an aldehyde. Adulterants such as Urin Aid and Clear Choice contain glutaraldehyde which may cause false negative results by disrupting the enzyme used in some immunoassay tests.<sup>3</sup> Glutaraldehyde is not normally found in urine; therefore, detection of glutaraldehyde in a urine specimen is generally an indicator of adulteration.

**Creatinine** is a waste product of creatine; an amino-acid contained in muscle tissue and found in urine.<sup>1</sup> A person may attempt to fail a test by drinking excessive amounts of water or diuretics such as herbal teas to "flush" the system. Creatinine and specific gravity are two ways to check for dilution and flushing, which are the most common mechanisms used in an attempt to circumvent drug testing. Low Creatinine and specific gravity levels may indicate dilute urine. The absence of Creatinine (<5 mg/dL) is indicative of a specimen not consistent with human urine.

**Bleach** tests for the presence of bleach. Bleach refers to a number of chemicals which remove color, whiten or disinfect, often by oxidation. Bleaches are used as household chemicals to whiten clothes and remove stains and as disinfectants. Normal human urine should not contain bleach.

#### 【PRINCIPLE (FOR ALCOHOL)】

The urine Alcohol Rapid Test Panel consists of a plastic strip with a reaction pad attached at the tip. On contact with alcohol, the reaction pad will change colors depending on the concentration of alcohol present. This is based on the high specificity of alcohol oxidase for ethyl alcohol in the presence of peroxidase and enzyme substrate such as TMB.

#### 【REAGENTS(FOR DOA TESTS EXCLUDING ALCOHOL)】

Each test line contains anti-drug mouse monoclonal antibody and corresponding drug-protein conjugates. The control line contains goat anti-rabbit IgG polyclonal antibodies and rabbit IgG.

#### 【REAGENTS (FOR ALCOHOL)】

Tetramethylbenzidine, Alcohol Oxidase, Peroxidase

#### 【S.V.T. REAGENTS】

| Adulteration Pad | Reactive indicator | Buffers and non-reactive ingredients |
|------------------|--------------------|--------------------------------------|
| Creatinine       | 0.04%              | 99.96%                               |
| Nitrite          | 0.07%              | 99.93%                               |
| Bleach           | 0.39%              | 99.61%                               |
| Glutaraldehyde   | 0.02%              | 99.98%                               |
| pH               | 0.06%              | 99.94%                               |
| Specific Gravity | 0.25%              | 99.75%                               |
| Oxidants / PCC   | 0.36%              | 99.64%                               |

#### 【PRECAUTIONS】

- For healthcare professionals including professionals at point of care sites.
- Immunoassay for *in vitro* diagnostic use only. The test should remain in the sealed pouch until use.
- All specimens should be considered potentially hazardous and handled in the same manner as an infectious agent.
- The used test should be discarded according to local regulations.

#### 【STORAGE AND STABILITY】

Store as packaged in the sealed pouch at 2-30°C. The test is stable through the expiration date printed on the sealed pouch. The Test must remain in the sealed pouch until use. **DO NOT FREEZE.** Do not use beyond the expiration date.

#### 【SPECIMEN COLLECTION AND PREPARATION】

##### Urine Assay

The urine specimen should be collected in a clean and dry container. Urine collected at any time of the day may be used. Urine specimens exhibiting visible precipitates should be centrifuged, filtered, or allowed to settle to obtain a clear specimen for testing.

##### Specimen Storage

Urine specimens may be stored at 2-8°C for up to 48 hours prior to testing. For prolonged

storage, specimens may be frozen and stored below -20°C. Frozen specimens should be thawed and mixed well before testing. When testing cards with S.V.T. or Alcohol storage of urine specimens should not exceed 2 hours at room temperature or 4 hours refrigerated prior to testing.

**【MATERIALS】**

**Materials Provided**

- Test Panels
- Adulteration Color Chart (when applicable)
- Package Insert

**Materials Required But Not Provided**

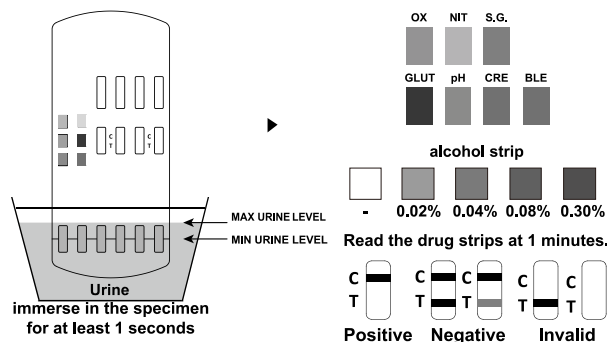
- Timer
- Specimen collection containers

**【DIRECTIONS FOR USE】**

**Allow the test, urine specimen and/or controls to reach room temperature (15-30°C) prior to testing.**

1. Bring the pouch to room temperature before opening it. Remove the test panel from the sealed pouch and use it within one hour.
2. With the arrow pointing toward the urine specimen, immerse the test panel vertically in the urine specimen for at least **1 seconds**. **Immerse the panel to at least the “min urine level” of the specimen well, but not above the “max urine level” on the test panel.**
3. Place the test panel on a non-absorbent flat surface.
4. Start the timer and wait for the colored line(s) to appear.
5. **Read the adulteration strips and alcohol strip between 1 minutes** according to color chart provided separately/on foil pouch when applicable. Refer to your Drug Free Policy for guidelines on adulterated specimens. We recommend not to interpret the drug test results and either retest the urine or collect another specimen in case of any positive result for any adulteration test.
6. The drug strip result should be read at **1 minutes**. Do not interpret the result after 10 minutes.

**Interpret adulteration strips and alcohol strip between 1 minutes. See enclosed color chart for interpretation.**



**【INTERPRETATION OF RESULTS】**

(Please refer to the illustration above)

**NEGATIVE:** A colored line appears in the control region (C) and another colored line appears in the test region (T). This negative result means that the concentrations in the urine sample are below the designated cut-off levels for a particular drug tested.

**\*NOTE:** The shade of the colored lines(s) in the test region (T) may vary. The result should be considered negative whenever there is even a faint line.

**POSITIVE:** A colored line appears in the control region (C) and no line appears in the test region (T). The positive result means that the drug concentration in the urine sample is greater than the designated cut-off for a specific drug.

**INVALID:** No line appears in the control region (C). Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Read the directions again and repeat the test with a new test. If the result is still invalid, contact your manufacturer.

**【INTERPRETATION OF RESULTS (S.V.T/ ADULTERATION)】**

(Please refer to the color chart)

Semi-Quantitative results are obtained by visually comparing the reacted color blocks on the strip to the printed color blocks on the color chart. No instrumentation is required.

**【INTERPRETATION OF RESULTS (ALCOHOL STRIP)】**

**Negative:** Almost no color change by comparing with the background. The negative result

indicates that the urine alcohol level is less than 0.02%.

**Positive:** A distinct color developed all over the pad. The positive result indicates that the urine alcohol concentration is 0.02% or higher.

**Invalid:** The test should be considered invalid if only the edge of the reactive pad turned color that might be ascribed to insufficient sampling. The subject should be re-tested. Besides, if the color pad has a blue color before applying urine sample, do not use the test.

**【QUALITY CONTROL】**

A procedural control is included in the test. A line appearing in the control region (C) is considered an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking and correct procedural technique.

Control standards are not supplied with this kit. However, it is recommended that positive and negative controls be tested as good laboratory practice to confirm the test procedure and to verify proper test performance.

**【LIMITATIONS】**

1. The Multi-Drug Rapid Test Panel provides only a qualitative, preliminary result. A secondary analytical method must be used to obtain a confirmed result. Gas Chromatography /Mass Spectrometry (GC/MS) is the preferred confirmatory method.<sup>4,5</sup>
2. There is a possibility that technical or procedural errors, as well as interfering substances in the urine specimen may cause erroneous results.
3. Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. If adulteration is suspected, the test should be repeated with another urine specimen.
4. A positive result does not indicate level or intoxication, administration route or concentration in urine.
5. A negative result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cut-off level of the test.
6. This test does not distinguish between drugs of abuse and certain medications.
7. A positive test result may be obtained from certain foods or food supplements.

**【S.V.T/ ADULTERATION LIMITATIONS】**

1. The adulteration tests included with the product are meant to aid in the determination of abnormal specimens. While comprehensive, these tests are not meant to be an “all-inclusive” representation of possible adulterants.
2. **Oxidants/PCC:** Normal human urine should not contain oxidants or PCC. The presence of high levels of antioxidants in the specimen, such as ascorbic acid, may result in false negative results for the oxidants/PCC pad.
3. **Specific Gravity:** Elevated levels of protein in urine may cause abnormally high specific gravity values.
4. **Nitrite:** Nitrite is not a normal component of human urine. However, nitrite found in urine may indicate urinary tract infections or bacterial infections. Nitrite levels of >20 mg/dL may produce false positive glutaraldehyde results.
5. **Glutaraldehyde:** is not normally found in urine. However certain metabolic abnormalities such as ketoacidosis (fasting, uncontrolled diabetes or high protein diets) may interfere with the test results.
6. **Creatinine:** Normal Creatinine levels are between 20 and 350 mg/dL. Under rare conditions, certain kidney diseases may show dilute urine.
7. **Bleach:** Normal human urine should not contain bleach. The presence of high levels of bleach in the specimen may result in false negative results for the bleach pad.
8. **pH:** Normal pH levels are between 4.0 and 9.0.

**【PERFORMANCE CHARACTERISTICS】**

**Accuracy  
% Agreement with GC/MS**

|                    |              |              |            |            |            |            |            |            |            |            |           |
|--------------------|--------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|
|                    | ACE<br>5,000 | AMP<br>1,000 | AMP<br>500 | AMP<br>300 | BAR<br>300 | BAR<br>200 | BZO<br>500 | BZO<br>300 | BZO<br>200 | BZO<br>100 | BUP<br>10 |
| Positive Agreement | 93.5%        | 98.1%        | 99.1%      | 99.1%      | 96.1%      | 95.3%      | 98.2%      | 98.4%      | 99.2%      | 99.2%      | 99.1%     |
| Negative Agreement | 98.6%        | 97.9%        | 98.6%      | 98.5%      | 98.6%      | 97.9%      | 97.8%      | 99.2%      | 98.4%      | 97.5%      | >99.9%    |
| Total Results      | 97.0%        | 98.0%        | 98.8%      | 98.8%      | 97.6%      | 96.8%      | 98.0%      | 98.8%      | 98.8%      | 98.4%      | 99.6%     |

|                    |          |            |            |            |            |            |            |           |           |           |            |
|--------------------|----------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|------------|
|                    | BUP<br>5 | COC<br>300 | COC<br>200 | COC<br>150 | COC<br>100 | THC<br>300 | THC<br>150 | THC<br>50 | THC<br>25 | THC<br>20 | MTD<br>300 |
| Positive Agreement | 99.1%    | 98.2%      | >99.9%     | 98.3%      | 99.2%      | 95.5%      | 94.5%      | 97.9%     | 96.9%     | 94.8%     | 98.9%      |

|                    |        |       |        |       |       |       |       |       |       |       |       |
|--------------------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Negative Agreement | >99.9% | 97.8% | >99.9% | 97.0% | 97.0% | 98.1% | 97.5% | 98.1% | 97.4% | 99.3% | 98.8% |
| Total Results      | 99.6%  | 98.0% | 100.0% | 97.6% | 98.0% | 97.2% | 96.4% | 98.0% | 97.2% | 97.6% | 98.8% |

|                    |            |              |            |            |               |             |             |                    |                    |            |              |
|--------------------|------------|--------------|------------|------------|---------------|-------------|-------------|--------------------|--------------------|------------|--------------|
|                    | MTD<br>200 | MET<br>1,000 | MET<br>500 | MET<br>300 | MDMA<br>1,000 | MDMA<br>500 | MDMA<br>300 | MOP/<br>OPI<br>300 | MOP/<br>OPI<br>100 | MQL<br>300 | OPI<br>2,000 |
| Positive Agreement | 98.9%      | 96.2%        | 97.6%      | 97.8%      | 98.0%         | 98.1%       | 98.1%       | 95.0%              | 97.0%              | 89.8%      | 96.7%        |
| Negative Agreement | 98.7%      | 97.1%        | 97.0%      | 97.5%      | 99.3%         | 99.3%       | 99.3%       | 95.3%              | 96.6%              | 93.2%      | 93.8%        |
| Total Results      | 98.8%      | 96.8%        | 97.2%      | 97.6%      | 98.8%         | 98.8%       | 98.8%       | 95.2%              | 96.8%              | 92.0%      | 95.2%        |

|                    |           |            |              |            |            |            |            |              |            |            |            |
|--------------------|-----------|------------|--------------|------------|------------|------------|------------|--------------|------------|------------|------------|
|                    | PCP<br>25 | PPX<br>300 | TCA<br>1,000 | TCA<br>500 | TML<br>100 | TML<br>200 | TML<br>300 | KET<br>1,000 | KET<br>500 | KET<br>300 | KET<br>100 |
| Positive Agreement | 92.4%     | 96.0%      | 94.8%        | 94.9%      | 88.2%      | 88.2%      | 88.0%      | 97.5%        | 97.6%      | 96.7%      | 96.0%      |
| Negative Agreement | 96.8%     | 94.0%      | 91.6%        | 92.1%      | 92.4%      | 96.2%      | 96.2%      | 98.2%        | 98.2%      | 97.5%      | 97.3%      |
| Total Results      | 95.2%     | 94.8%      | 92.8%        | 93.2%      | 90.8%      | 93.2%      | 93.2%      | 98.0%        | 98.0%      | 97.2%      | 96.8%      |

|                    |            |            |            |            |            |           |           |             |             |           |           |
|--------------------|------------|------------|------------|------------|------------|-----------|-----------|-------------|-------------|-----------|-----------|
|                    | OXY<br>100 | OXY<br>300 | COT<br>500 | COT<br>200 | COT<br>100 | COT<br>50 | COT<br>10 | EDDP<br>300 | EDDP<br>100 | FYL<br>20 | FYL<br>10 |
| Positive Agreement | 97.7%      | 96.5%      | 95.7%      | 96.7%      | 97.9%      | 96.7%     | 97.8%     | 97.9%       | 96.9%       | 98.8%     | 98.8%     |
| Negative Agreement | 99.4%      | 99.4%      | 96.1%      | 97.5%      | 98.1%      | 97.5%     | 98.1%     | 99.4%       | 96.7%       | 99.4%     | 99.4%     |
| Total Results      | 98.8%      | 98.4%      | 96.0%      | 97.2%      | 98.0%      | 97.2%     | 98.0%     | 98.8%       | 96.8%       | 99.2%     | 99.2%     |

|                    |          |          |             |            |            |              |            |            |           |           |           |
|--------------------|----------|----------|-------------|------------|------------|--------------|------------|------------|-----------|-----------|-----------|
|                    | K2<br>50 | K2<br>30 | 6-MAM<br>10 | MDA<br>500 | ETG<br>500 | ETG<br>1,000 | CLO<br>400 | CLO<br>150 | LSD<br>10 | LSD<br>20 | LSD<br>50 |
| Positive Agreement | 97.5%    | 97.6%    | 97.7%       | 98.1%      | 97.6%      | 95.3%        | 97.1%      | 99.0%      | 94.3%     | 94.3%     | 94.1%     |
| Negative Agreement | 98.2%    | 98.8%    | 98.1%       | 97.9%      | 99.4%      | 99.4%        | 99.3%      | 98.6%      | 98.5%     | 98.5%     | 98.5%     |
| Total Results      | 98.0%    | 98.4%    | 98.0%       | 98.0%      | 98.8%      | 98.0%        | 98.4%      | 98.8%      | 97.0%     | 97.0%     | 97.0%     |

|                    |            |              |           |            |            |           |             |              |              |              |             |
|--------------------|------------|--------------|-----------|------------|------------|-----------|-------------|--------------|--------------|--------------|-------------|
|                    | MPD<br>300 | MPD<br>1,000 | ZOL<br>50 | DIA<br>300 | DIA<br>200 | ZOP<br>50 | MCAT<br>500 | 7-ACL<br>300 | 7-ACL<br>200 | 7-ACL<br>100 | CFYL<br>500 |
| Positive Agreement | 94.6%      | 94.6%        | 90.9%     | 98.4%      | 98.4%      | 86.4%     | 90.9%       | 94.1%        | 94.6%        | 94.7%        | 94.7%       |
| Negative Agreement | 98.4%      | 98.4%        | 97.1%     | 99.2%      | 99.2%      | 97.2%     | 95.0%       | 97.7%        | 97.6%        | 97.5%        | 98.6%       |
| Total Results      | 97.0%      | 97.0%        | 95.6%     | 98.8%      | 98.8%      | 94.6%     | 94.1%       | 96.2%        | 96.2%        | 96.2%        | 97.3%       |

|                    |              |            |            |               |             |            |            |              |                |            |             |
|--------------------|--------------|------------|------------|---------------|-------------|------------|------------|--------------|----------------|------------|-------------|
|                    | CAF<br>1,000 | CAT<br>150 | TRO<br>350 | MDPV<br>1,000 | MDPV<br>500 | MEP<br>100 | ALP<br>100 | ABP/K3<br>10 | α-PVP<br>1,000 | CNB<br>500 | MPRD<br>100 |
| Positive Agreement | 91.3%        | 90.5%      | 92.0%      | 93.3%         | 93.1%       | 90.5%      | 90.9%      | 92.0%        | 92.1%          | 95.8%      | 95.0%       |
| Negative Agreement | 95.7%        | 97.3%      | 97.0%      | 98.6%         | 98.3%       | 97.0%      | 97.4%      | 97.1%        | 96.8%          | 97.6%      | 94.2%       |
| Total Results      | 94.6%        | 95.8%      | 95.6%      | 97.0%         | 96.6%       | 95.4%      | 95.9%      | 95.8%        | 95.0%          | 96.9%      | 94.4%       |

|  |               |            |                  |            |            |              |                    |            |              |           |              |
|--|---------------|------------|------------------|------------|------------|--------------|--------------------|------------|--------------|-----------|--------------|
|  | PGB<br>50,000 | TZD<br>200 | UR-<br>144<br>25 | ZAL<br>100 | MES<br>100 | GAB<br>2,000 | MOP/<br>OPI<br>200 | ETG<br>300 | α-PVP<br>500 | TLD<br>50 | QTP<br>1,000 |
|--|---------------|------------|------------------|------------|------------|--------------|--------------------|------------|--------------|-----------|--------------|

|                    |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Positive Agreement | 90.9% | 92.9% | 97.1% | 95.2% | 95.8% | 92.3% | 95.0% | 98.8% | 91.9% | 97.3% | 97.1% |
| Negative Agreement | 97.3% | 96.1% | 98.4% | 97.4% | 97.6% | 98.5% | 96.0% | 99.4% | 95.2% | 98.3% | 98.3% |
| Total Results      | 95.9% | 95.2% | 98.0% | 96.7% | 96.9% | 96.7% | 95.6% | 99.2% | 94.0% | 97.9% | 97.9% |

|                    |         |         |           |         |       |         |            |         |         |         |          |
|--------------------|---------|---------|-----------|---------|-------|---------|------------|---------|---------|---------|----------|
|                    | PAP 500 | KRA 300 | CAR 2,000 | FLX 500 | K2 25 | CIT 500 | FKET 1,000 | RPD 150 | FYL 100 | FYL 200 | CFYL 250 |
| Positive Agreement | 96.9%   | 95.7%   | 95.0%     | 97.1%   | 97.6% | 93.3%   | 96.7%      | 93.3%   | 98.8%   | 97.5%   | 94.7%    |
| Negative Agreement | 98.0%   | 98.3%   | 94.2%     | 96.6%   | 98.2% | 95.5%   | 97.0%      | 95.5%   | 99.4%   | 99.4%   | 98.6%    |
| Total Results      | 97.6%   | 97.6%   | 94.4%     | 96.8%   | 98.0% | 94.8%   | 96.9%      | 94.8%   | 99.2%   | 98.8%   | 97.3%    |

|                    |         |         |           |          |             |           |           |           |          |         |
|--------------------|---------|---------|-----------|----------|-------------|-----------|-----------|-----------|----------|---------|
|                    | PGB 500 | MES 300 | OZP 1,000 | MDPV 300 | α-PVP 2,000 | α-PVP 300 | TAP 1,000 | NND 1,000 | SCOP 500 | MTZ 500 |
| Positive Agreement | 95.2%   | 95.8%   | 95.8%     | 93.8%    | 86.8%       | 92.1%     | 94.4%     | 96.7%     | 93.5%    | 93.3%   |
| Negative Agreement | 96.3%   | 97.6%   | 97.6%     | 97.1%    | 96.8%       | 95.2%     | 98.2%     | 97.0%     | 98.6%    | 95.6%   |
| Total Results      | 96.0%   | 96.9%   | 96.9%     | 96.1%    | 93.0%       | 94.0%     | 96.7%     | 96.9%     | 97.0%    | 94.9%   |

|                    |         |         |        |         |         |           |        |         |         |           |         |
|--------------------|---------|---------|--------|---------|---------|-----------|--------|---------|---------|-----------|---------|
|                    | COT 300 | THC 200 | THC 30 | MEP 500 | MPD 150 | OPI 1,000 | PCP 50 | TML 500 | TCA 300 | CAR 1,000 | FYL 300 |
| Positive Agreement | 97.7%   | 93.4%   | 97.9%  | 95.2%   | 91.9%   | 95.9%     | 92.3%  | 92.9%   | 94.9%   | 90.0%     | 97.0%   |
| Negative Agreement | 97.5%   | 97.5%   | 98.1%  | 98.5%   | 98.4%   | 93.8%     | 96.9%  | 98.1%   | 92.1%   | 98.1%     | 98.9%   |
| Total Results      | 97.6%   | 96.0%   | 98.0%  | 97.7%   | 96.0%   | 94.8%     | 95.2%  | 96.9%   | 93.2%   | 95.8%     | 98.6%   |

|                    |         |         |         |         |         |           |           |         |        |         |
|--------------------|---------|---------|---------|---------|---------|-----------|-----------|---------|--------|---------|
|                    | HMO 250 | HMO 300 | HMO 500 | MET 200 | CAR 500 | COC 1,500 | ETG 1,500 | ZOP 300 | ZOL 25 | MTD 100 |
| Positive Agreement | 93.8%   | 91.7%   | 91.7%   | 97.6%   | 90.0%   | 92.0%     | 97.7%     | 90.9%   | 90.9%  | 98.9%   |
| Negative Agreement | 97.5%   | 98.7%   | 98.7%   | 97.0%   | 92.3%   | 98.3%     | 99.4%     | 97.2%   | 97.1%  | 98.7%   |
| Total Results      | 96.1%   | 96.1%   | 96.1%   | 97.2%   | 91.7%   | 95.2%     | 98.8%     | 95.7%   | 95.6%  | 98.8%   |

**% Agreement with Commercial Kit**

|                    |           |                   |                 |                     |          |             |                   |               |                   |                   |
|--------------------|-----------|-------------------|-----------------|---------------------|----------|-------------|-------------------|---------------|-------------------|-------------------|
|                    | ACE 5,000 | AMP 1,000/500/300 | BAR 300/200/100 | BZO 500/300/200/100 | BUP 10/5 | COC 300/100 | COC 1,500/200/150 | THC 150/50/25 | THC 300/200/30/20 | MPD 1,000/300/150 |
| Positive Agreement | *         | >99.9%            | >99.9%          | >99.9%              | >99.9%   | >99.9%      | *                 | >99.9%        | *                 | *                 |
| Negative Agreement | *         | >99.9%            | >99.9%          | >99.9%              | >99.9%   | >99.9%      | *                 | >99.9%        | *                 | *                 |
| Total Results      | *         | >99.9%            | >99.9%          | >99.9%              | >99.9%   | >99.9%      | *                 | >99.9%        | *                 | *                 |

|                    |                   |                 |                   |         |                |          |                     |         |             |              |
|--------------------|-------------------|-----------------|-------------------|---------|----------------|----------|---------------------|---------|-------------|--------------|
|                    | 7-ACL 300/200/100 | MTD 300/200/100 | MET 1,000/500/300 | MET 200 | MDMA 1,000/500 | MDMA 300 | MOP/OPI 300/200/100 | MQL 300 | MEP 500/100 | LSD 50/20/10 |
| Positive Agreement | *                 | >99.9%          | >99.9%            | >99.9%  | >99.9%         | >99.9%   | *                   | >99.9%  | *           | *            |
| Negative Agreement | *                 | >99.9%          | >99.9%            | >99.9%  | >99.9%         | >99.9%   | *                   | >99.9%  | *           | *            |
| Total Results      | *                 | >99.9%          | >99.9%            | >99.9%  | >99.9%         | >99.9%   | *                   | >99.9%  | *           | *            |

|                    |   |        |        |   |        |   |        |        |   |   |
|--------------------|---|--------|--------|---|--------|---|--------|--------|---|---|
| Positive Agreement | * | >99.9% | >99.9% | * | >99.9% | * | >99.9% | >99.9% | * | * |
| Negative Agreement | * | >99.9% | >99.9% | * | >99.9% | * | >99.9% | >99.9% | * | * |
| Total Results      | * | >99.9% | >99.9% | * | >99.9% | * | >99.9% | >99.9% | * | * |

|                    |         |                   |                     |                       |                           |                 |        |        |             |                    |
|--------------------|---------|-------------------|---------------------|-----------------------|---------------------------|-----------------|--------|--------|-------------|--------------------|
|                    | PPX 300 | TCA 1,000/500/300 | TML 500/300/200/100 | KET 1,000/500/300/100 | COT 500/300/200/100/50/10 | OPI 2,000/1,000 | PCP 50 | PCP 25 | DIA 300/200 | MDPV 1,000/500/300 |
| Positive Agreement | >99.9%  | *                 | *                   | >99.9%                | *                         | *               | *      | >99.9% | *           | *                  |
| Negative Agreement | >99.9%  | *                 | *                   | >99.9%                | *                         | *               | *      | >99.9% | *           | *                  |
| Total Results      | >99.9%  | *                 | *                   | >99.9%                | *                         | *               | *      | >99.9% | *           | *                  |

|                    |             |              |                       |             |          |         |                         |             |           |            |          |
|--------------------|-------------|--------------|-----------------------|-------------|----------|---------|-------------------------|-------------|-----------|------------|----------|
|                    | OXY 300/100 | EDDP 300/100 | FYL 300/200/100/20/10 | K2-50/30/25 | 6-MAM 10 | MDA 500 | ETG 1,500/1,000/500/300 | CLO 400/150 | ZOL 50/25 | ZOP 300/50 | MCAT 500 |
| Positive Agreement | *           | *            | *                     | *           | *        | *       | *                       | *           | *         | *          | *        |
| Negative Agreement | *           | *            | *                     | *           | *        | *       | *                       | *           | *         | *          | *        |
| Total Results      | *           | *            | *                     | *           | *        | *       | *                       | *           | *         | *          | *        |

|                    |              |           |         |         |         |                |           |         |         |           |
|--------------------|--------------|-----------|---------|---------|---------|----------------|-----------|---------|---------|-----------|
|                    | CFYL 500/250 | CAF 1,000 | CAT 150 | TRO 350 | ALP 100 | PGB 50,000/500 | ABP/K3 10 | CNB 500 | TZD 200 | GAB 2,000 |
| Positive Agreement | *            | *         | *       | *       | *       | *              | *         | *       | *       | *         |
| Negative Agreement | *            | *         | *       | *       | *       | *              | *         | *       | *       | *         |
| Total Results      | *            | *         | *       | *       | *       | *              | *         | *       | *       | *         |

|                    |                     |          |           |         |              |         |        |                           |             |         |
|--------------------|---------------------|----------|-----------|---------|--------------|---------|--------|---------------------------|-------------|---------|
|                    | CAR 2,000/1,000/500 | MPRD 100 | QTP 1,000 | FLX 500 | UR-144/K4 25 | KRA 300 | TLD 50 | α-PVP 2,000/1,000/500/300 | MES 100/300 | ZAL 100 |
| Positive Agreement | *                   | *        | *         | *       | *            | *       | *      | *                         | *           | *       |
| Negative Agreement | *                   | *        | *         | *       | *            | *       | *      | *                         | *           | *       |
| Total Results      | *                   | *        | *         | *       | *            | *       | *      | *                         | *           | *       |

|                    |         |            |         |           |           |          |         |           |         |                 |
|--------------------|---------|------------|---------|-----------|-----------|----------|---------|-----------|---------|-----------------|
|                    | CIT 500 | FKET 1,000 | RPD 150 | TAP 1,000 | NND 1,000 | SCOP 500 | MTZ 500 | OZP 1,000 | PAP 500 | HMO 500/300/250 |
| Positive Agreement | *       | *          | *       | *         | *         | *        | *       | *         | *       | *               |
| Negative Agreement | *       | *          | *       | *         | *         | *        | *       | *         | *       | *               |
| Total Results      | *       | *          | *       | *         | *         | *        | *       | *         | *       | *               |

\*Note: Based on GC/MS data instead of Commercial Kit.

**Precision**

A study was conducted at three hospitals using three different lots of product to demonstrate the within run, between run and between operator precision. An identical card of coded specimens, containing drugs at concentrations of negative, 50% and 25% cut-off level, was labeled, blinded and tested at each site. **The results gained ≥75% accuracy in ±25% cut-off level specimen and 100% accuracy in negative and ±50% cut-off level specimen.**

**Analytical Sensitivity**

A drug-free urine pool was spiked with drugs at the listed concentrations. The results are summarized below.

| Drug Concentration Cut-off Range | ACE 5,000 |    | AMP 1,000 |    | AMP 500 |    | AMP 300 |    | BAR 300 |    | BAR 200 |    | BZO 500 |    | BZO 300 |    |
|----------------------------------|-----------|----|-----------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|
|                                  | -         | +  | -         | +  | -       | +  | -       | +  | -       | +  | -       | +  | -       | +  | -       | +  |
| 0% Cut-off                       | 30        | 0  | 30        | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  |
| -50% Cut-off                     | 30        | 0  | 30        | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  |
| -25% Cut-off                     | 26        | 4  | 26        | 4  | 25      | 5  | 27      | 3  | 27      | 3  | 26      | 4  | 27      | 3  | 27      | 3  |
| Cut-off                          | 14        | 16 | 15        | 15 | 15      | 15 | 15      | 15 | 15      | 15 | 15      | 15 | 15      | 15 | 15      | 15 |
| +25% Cut-off                     | 3         | 27 | 3         | 27 | 3       | 27 | 4       | 26 | 4       | 26 | 3       | 27 | 4       | 26 | 3       | 27 |
| +50% Cut-off                     | 0         | 30 | 0         | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 |
| +300% Cut-off                    | 0         | 30 | 0         | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 |

| Drug Concentration Cut-off Range | BZO 200 |    | BZO 100 |    | BUP 10 |    | BUP 5 |    | COC 1,500 |    | COC 300 |    | COC 200 |    | COC 150 |    | COC 100 |    |
|----------------------------------|---------|----|---------|----|--------|----|-------|----|-----------|----|---------|----|---------|----|---------|----|---------|----|
|                                  | -       | +  | -       | +  | -      | +  | -     | +  | -         | +  | -       | +  | -       | +  | -       | +  | -       | +  |
| 0% Cut-off                       | 30      | 0  | 30      | 0  | 30     | 0  | 30    | 0  | 30        | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  |
| -50% Cut-off                     | 30      | 0  | 30      | 0  | 30     | 0  | 30    | 0  | 30        | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30      | 0  |
| -25% Cut-off                     | 27      | 3  | 27      | 3  | 26     | 4  | 26    | 4  | 25        | 5  | 26      | 4  | 26      | 4  | 27      | 3  | 27      | 3  |
| Cut-off                          | 16      | 14 | 14      | 16 | 14     | 16 | 14    | 16 | 15        | 15 | 13      | 17 | 14      | 16 | 16      | 14 | 16      | 14 |
| +25% Cut-off                     | 3       | 27 | 3       | 27 | 3      | 27 | 3     | 27 | 3         | 27 | 3       | 27 | 3       | 27 | 4       | 26 | 4       | 26 |
| +50% Cut-off                     | 0       | 30 | 0       | 30 | 0      | 30 | 0     | 30 | 0         | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 |
| +300% Cut-off                    | 0       | 30 | 0       | 30 | 0      | 30 | 0     | 30 | 0         | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0       | 30 |

| Drug Concentration Cut-off Range | THC 150 |    | THC 50 |    | THC 25 |    | MTD 300 |    | MTD 200 |    | MTD 100 |    | MET 1,000 |    | MET 500 |    | MET 300 |    | MET 200 |    |
|----------------------------------|---------|----|--------|----|--------|----|---------|----|---------|----|---------|----|-----------|----|---------|----|---------|----|---------|----|
|                                  | -       | +  | -      | +  | -      | +  | -       | +  | -       | +  | -       | +  | -         | +  | -       | +  | -       | +  | -       | +  |
| 0% Cut-off                       | 30      | 0  | 30     | 0  | 30     | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30        | 0  | 30      | 0  | 30      | 0  | 30      | 0  |
| -50% Cut-off                     | 30      | 0  | 30     | 0  | 30     | 0  | 30      | 0  | 30      | 0  | 30      | 0  | 30        | 0  | 30      | 0  | 30      | 0  | 30      | 0  |
| -25% Cut-off                     | 27      | 3  | 26     | 4  | 27     | 3  | 27      | 3  | 27      | 3  | 27      | 3  | 27        | 3  | 27      | 3  | 27      | 3  | 27      | 3  |
| Cut-off                          | 15      | 15 | 14     | 16 | 15     | 15 | 13      | 17 | 15      | 15 | 14      | 16 | 14        | 15 | 15      | 16 | 14      | 15 | 15      | 15 |
| +25% Cut-off                     | 4       | 26 | 3      | 27 | 4      | 26 | 4       | 26 | 4       | 26 | 5       | 25 | 3         | 27 | 4       | 26 | 3       | 27 | 4       | 26 |
| +50% Cut-off                     | 0       | 30 | 0      | 30 | 0      | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0         | 30 | 0       | 30 | 0       | 30 | 0       | 30 |
| +300% Cut-off                    | 0       | 30 | 0      | 30 | 0      | 30 | 0       | 30 | 0       | 30 | 0       | 30 | 0         | 30 | 0       | 30 | 0       | 30 | 0       | 30 |

| Drug Concentration Cut-off Range | MDMA 1,000 |    | MDMA 500 |    | MOP/OPI 300 |    | MOP/OPI 100 |    | OPI 2,000 |    | PCP 50 |    | PCP 25 |    | PPX 300 |    |
|----------------------------------|------------|----|----------|----|-------------|----|-------------|----|-----------|----|--------|----|--------|----|---------|----|
|                                  | -          | +  | -        | +  | -           | +  | -           | +  | -         | +  | -      | +  | -      | +  | -       | +  |
| 0% Cut-off                       | 30         | 0  | 30       | 0  | 30          | 0  | 30          | 0  | 30        | 0  | 30     | 0  | 30     | 0  | 30      | 0  |
| -50% Cut-off                     | 30         | 0  | 30       | 0  | 30          | 0  | 30          | 0  | 30        | 0  | 30     | 0  | 30     | 0  | 30      | 0  |
| -25% Cut-off                     | 26         | 4  | 25       | 5  | 26          | 4  | 26          | 4  | 27        | 3  | 26     | 4  | 25     | 5  | 26      | 4  |
| Cut-off                          | 15         | 15 | 14       | 16 | 15          | 15 | 15          | 15 | 15        | 15 | 15     | 15 | 15     | 15 | 15      | 14 |
| +25% Cut-off                     | 5          | 25 | 4        | 26 | 3           | 27 | 3           | 27 | 5         | 25 | 3      | 27 | 3      | 27 | 3       | 27 |
| +50% Cut-off                     | 0          | 30 | 0        | 30 | 0           | 30 | 0           | 30 | 0         | 30 | 0      | 30 | 0      | 30 | 0       | 30 |
| +300% Cut-off                    | 0          | 30 | 0        | 30 | 0           | 30 | 0           | 30 | 0         | 30 | 0      | 30 | 0      | 30 | 0       | 30 |

| Drug Concentration Cut-off Range | TML 100 |   | TML 200 |   | TML 300 |   | TML 500 |   | KET 1,000 |   | KET 500 |   | KET 300 |   | KET 100 |   | MQL 300 |   |
|----------------------------------|---------|---|---------|---|---------|---|---------|---|-----------|---|---------|---|---------|---|---------|---|---------|---|
|                                  | -       | + | -       | + | -       | + | -       | + | -         | + | -       | + | -       | + | -       | + | -       | + |
| 0% Cut-off                       | 30      | 0 | 30      | 0 | 30      | 0 | 30      | 0 | 30        | 0 | 30      | 0 | 30      | 0 | 30      | 0 | 30      | 0 |
| -50% Cut-off                     | 30      | 0 | 30      | 0 |         |   |         |   |           |   |         |   |         |   |         |   |         |   |

|               |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |
|---------------|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|
| +25% Cut-off  | 4 | 26 | 4 | 26 | 4 | 26 | 3 | 27 | 3 | 27 | 4 | 26 | 4 | 26 | 3 | 27 | 4 | 26 |
| +50% Cut-off  | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 |
| +300% Cut-off | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 |

| Drug Concentration | OXY | OXY | COT | COT | EDDP | EDDP | FYL | FYL |
|--------------------|-----|-----|-----|-----|------|------|-----|-----|
| Cut-off Range      | 100 | 300 | 200 | 100 | 300  | 100  | 20  | 10  |
|                    | -   | +   | -   | +   | -    | +    | -   | +   |
| 0% Cut-off         | 30  | 0   | 30  | 0   | 30   | 0    | 30  | 0   |
| -50% Cut-off       | 30  | 0   | 30  | 0   | 30   | 0    | 30  | 0   |
| -25% Cut-off       | 27  | 3   | 27  | 3   | 27   | 3    | 27  | 3   |
| Cut-off            | 15  | 15  | 15  | 15  | 15   | 14   | 16  | 15  |
| +25% Cut-off       | 4   | 26  | 4   | 26  | 4    | 26   | 4   | 26  |
| +50% Cut-off       | 0   | 30  | 0   | 30  | 0    | 30   | 0   | 30  |
| +300% Cut-off      | 0   | 30  | 0   | 30  | 0    | 30   | 0   | 30  |

| Drug Concentration | K2 | K2 | 6-MAM | MDA | ETG | ETG | ETG   | CLO | CLO | LSA |
|--------------------|----|----|-------|-----|-----|-----|-------|-----|-----|-----|
| Cut-off Range      | 50 | 30 | 10    | 500 | 300 | 500 | 1,000 | 400 | 150 | 20  |
|                    | -  | +  | -     | +   | -   | +   | -     | +   | -   | +   |
| 0% Cut-off         | 30 | 0  | 30    | 0   | 30  | 0   | 30    | 0   | 30  | 0   |
| -50% Cut-off       | 30 | 0  | 30    | 0   | 30  | 0   | 30    | 0   | 30  | 0   |
| -25% Cut-off       | 26 | 4  | 27    | 3   | 26  | 4   | 26    | 4   | 26  | 4   |
| Cut-off            | 15 | 15 | 16    | 14  | 15  | 15  | 15    | 14  | 16  | 14  |
| +25% Cut-off       | 3  | 27 | 4     | 26  | 3   | 27  | 4     | 26  | 3   | 27  |
| +50% Cut-off       | 0  | 30 | 0     | 30  | 0   | 30  | 0     | 30  | 0   | 30  |
| +300% Cut-off      | 0  | 30 | 0     | 30  | 0   | 30  | 0     | 30  | 0   | 30  |

| Drug Concentration | LSA | ZOL | ZOL | MDMA | THC | MOP/ | MEP | MEP | MDPV  | ETG   |
|--------------------|-----|-----|-----|------|-----|------|-----|-----|-------|-------|
| Cut-off Range      | 50  | 50  | 25  | 300  | 200 | OPI  | 500 | 100 | 1,000 | 1,500 |
|                    | -   | +   | -   | +    | -   | +    | -   | +   | -     | +     |
| 0% Cut-off         | 30  | 0   | 30  | 0    | 30  | 0    | 30  | 0   | 30    | 0     |
| -50% Cut-off       | 30  | 0   | 30  | 0    | 30  | 0    | 30  | 0   | 30    | 0     |
| -25% Cut-off       | 27  | 3   | 26  | 4    | 25  | 5    | 26  | 4   | 26    | 4     |
| Cut-off            | 14  | 16  | 14  | 16   | 15  | 15   | 15  | 15  | 17    | 13    |
| +25% Cut-off       | 3   | 27  | 5   | 25   | 4   | 26   | 4   | 26  | 5     | 25    |
| +50% Cut-off       | 0   | 30  | 0   | 30   | 0   | 30   | 0   | 30  | 0     | 30    |
| +300% Cut-off      | 0   | 30  | 0   | 30   | 0   | 30   | 0   | 30  | 0     | 30    |

| Drug Concentration | MDPV | MDPV | DIA | DIA | THC | THC | K2 | ZOP | ZOP | MCAT |
|--------------------|------|------|-----|-----|-----|-----|----|-----|-----|------|
| Cut-off Range      | 300  | 300  | 300 | 200 | 300 | 300 | 25 | 300 | 50  | 500  |
|                    | -    | +    | -   | +   | -   | +   | -  | +   | -   | +    |
| 0% Cut-off         | 30   | 0    | 30  | 0   | 30  | 0   | 30 | 0   | 30  | 0    |
| -50% Cut-off       | 30   | 0    | 30  | 0   | 30  | 0   | 30 | 0   | 30  | 0    |
| -25% Cut-off       | 25   | 5    | 26  | 4   | 27  | 3   | 26 | 4   | 26  | 4    |
| Cut-off            | 15   | 15   | 14  | 16  | 15  | 15  | 15 | 14  | 16  | 14   |
| +25% Cut-off       | 3    | 27   | 3   | 27  | 3   | 27  | 4  | 26  | 3   | 27   |
| +50% Cut-off       | 0    | 30   | 0   | 30  | 0   | 30  | 0  | 30  | 0   | 30   |
| +300% Cut-off      | 0    | 30   | 0   | 30  | 0   | 30  | 0  | 30  | 0   | 30   |

| Drug Concentration | 7-ACL | 7-ACL | 7-ACL | CFYL | CAF   | CAT | TRO | ALP | α-PVP |    |
|--------------------|-------|-------|-------|------|-------|-----|-----|-----|-------|----|
| Cut-off Range      | 300   | 200   | 100   | 500  | 1,000 | 150 | 350 | 100 | 1,000 |    |
|                    | -     | +     | -     | +    | -     | +   | -   | +   | -     | +  |
| 0% Cut-off         | 30    | 0     | 30    | 0    | 30    | 0   | 30  | 0   | 30    | 0  |
| -50% Cut-off       | 30    | 0     | 30    | 0    | 30    | 0   | 30  | 0   | 30    | 0  |
| -25% Cut-off       | 26    | 4     | 27    | 3    | 27    | 3   | 25  | 5   | 26    | 4  |
| Cut-off            | 14    | 16    | 14    | 16   | 13    | 17  | 13  | 17  | 13    | 15 |
| +25% Cut-off       | 5     | 25    | 3     | 27   | 4     | 26  | 6   | 24  | 4     | 26 |
| +50% Cut-off       | 0     | 30    | 0     | 30   | 0     | 30  | 0   | 30  | 0     | 30 |
| +300% Cut-off      | 0     | 30    | 0     | 30   | 0     | 30  | 0   | 30  | 0     | 30 |

| Drug Concentration | FYL | COT | TCA   | TCA | TCA | OPI   | THC | CAR   | CAR   | CAR |
|--------------------|-----|-----|-------|-----|-----|-------|-----|-------|-------|-----|
| Cut-off Range      | 100 | 300 | 1,000 | 500 | 300 | 1,000 | 20  | 2,000 | 1,000 | 500 |
|                    | -   | +   | -     | +   | -   | +     | -   | +     | -     | +   |
| 0% Cut-off         | 30  | 0   | 30    | 0   | 30  | 0     | 30  | 0     | 30    | 0   |
| -50% Cut-off       | 30  | 0   | 30    | 0   | 30  | 0     | 30  | 0     | 30    | 0   |
| -25% Cut-off       | 27  | 3   | 25    | 5   | 25  | 5     | 26  | 4     | 27    | 3   |
| Cut-off            | 15  | 15  | 15    | 15  | 15  | 14    | 16  | 14    | 16    | 14  |
| +25% Cut-off       | 3   | 27  | 4     | 26  | 3   | 27    | 4   | 26    | 3     | 27  |
| +50% Cut-off       | 0   | 30  | 0     | 30  | 0   | 30    | 0   | 30    | 0     | 30  |
| +300% Cut-off      | 0   | 30  | 0     | 30  | 0   | 30    | 0   | 30    | 0     | 30  |

| Drug Concentration | MPD | MPD | MPD   | PGB    | PGB | GAB   | TZD | CNB | PAP |    |
|--------------------|-----|-----|-------|--------|-----|-------|-----|-----|-----|----|
| Cut-off Range      | 150 | 300 | 1,000 | 50,000 | 500 | 2,000 | 200 | 500 | 500 |    |
|                    | -   | +   | -     | +      | -   | +     | -   | +   | -   | +  |
| 0% Cut-off         | 30  | 0   | 30    | 0      | 30  | 0     | 30  | 0   | 30  | 0  |
| -50% Cut-off       | 30  | 0   | 30    | 0      | 30  | 0     | 30  | 0   | 30  | 0  |
| -25% Cut-off       | 26  | 4   | 27    | 3      | 26  | 4     | 25  | 5   | 28  | 2  |
| Cut-off            | 15  | 15  | 16    | 14     | 16  | 14    | 15  | 15  | 14  | 16 |
| +25% Cut-off       | 5   | 25  | 5     | 25     | 5   | 25    | 5   | 25  | 6   | 24 |
| +50% Cut-off       | 0   | 30  | 0     | 30     | 0   | 30    | 0   | 30  | 0   | 30 |
| +300% Cut-off      | 0   | 30  | 0     | 30     | 0   | 30    | 0   | 30  | 0   | 30 |

| Drug Concentration | ABP/K3 | QTP   | FLX | KRA | TLD | α-PVP | α-PVP | α-PVP | LSA | HMO |
|--------------------|--------|-------|-----|-----|-----|-------|-------|-------|-----|-----|
| Cut-off Range      | 10     | 1,000 | 500 | 300 | 50  | 2,000 | 500   | 300   | 10  | 500 |
|                    | -      | +     | -   | +   | -   | +     | -     | +     | -   | +   |
| 0% Cut-off         | 30     | 0     | 30  | 0   | 30  | 0     | 30    | 0     | 30  | 0   |
| -50% Cut-off       | 30     | 0     | 30  | 0   | 30  | 0     | 30    | 0     | 30  | 0   |
| -25% Cut-off       | 25     | 5     | 29  | 1   | 29  | 1     | 28    | 2     | 29  | 1   |
| Cut-off            | 15     | 15    | 15  | 15  | 15  | 14    | 16    | 15    | 15  | 15  |
| +25% Cut-off       | 4      | 26    | 1   | 29  | 2   | 28    | 1     | 29    | 3   | 27  |
| +50% Cut-off       | 0      | 30    | 0   | 30  | 0   | 30    | 0     | 30    | 0   | 30  |
| +300% Cut-off      | 0      | 30    | 0   | 30  | 0   | 30    | 0     | 30    | 0   | 30  |

| Drug Concentration | COT | COT | COT | CFYL | FYL | ZAL | MPRD | TAP   | CIT | FKET  | UR-144 |    |
|--------------------|-----|-----|-----|------|-----|-----|------|-------|-----|-------|--------|----|
| Cut-off Range      | 500 | 50  | 10  | 250  | 200 | 100 | 100  | 1,000 | 500 | 1,000 | /K4 25 |    |
|                    | -   | +   | -   | +    | -   | +   | -    | +     | -   | +     | -      | +  |
| 0% Cut-off         | 30  | 0   | 30  | 0    | 30  | 0   | 30   | 0     | 30  | 0     | 30     | 0  |
| -50% Cut-off       | 30  | 0   | 30  | 0    | 30  | 0   | 30   | 0     | 30  | 0     | 30     | 0  |
| -25% Cut-off       | 26  | 4   | 27  | 3    | 27  | 3   | 25   | 5     | 27  | 3     | 27     | 3  |
| Cut-off            | 14  | 16  | 16  | 14   | 15  | 15  | 14   | 16    | 15  | 15    | 15     | 15 |
| +25% Cut-off       | 3   | 27  | 4   | 26   | 4   | 26  | 6    | 24    | 3   | 27    | 4      | 26 |
| +50% Cut-off       | 0   | 30  | 0   | 30   | 0   | 30  | 0    | 30    | 0   | 30    | 0      | 30 |
| +300% Cut-off      | 0   | 30  | 0   | 30   | 0   | 30  | 0    | 30    | 0   | 30    | 0      | 30 |

| Drug Concentration | RPD | SCOP | NND   | MTZ | OZP   | MES | MES | FYL | HMO | HMO |
|--------------------|-----|------|-------|-----|-------|-----|-----|-----|-----|-----|
| Cut-off Range      | 150 | 500  | 1,000 | 500 | 1,000 | 300 | 100 | 300 | 250 | 300 |
|                    | -   | +    | -     | +   | -     | +   | -   | +   | -   | +   |
| 0% Cut-off         | 30  | 0    | 30    | 0   | 30    | 0   | 30  | 0   | 30  | 0   |
| -50% Cut-off       | 30  | 0    | 30    | 0   | 30    | 0   | 30  | 0   | 30  | 0   |
| -25% Cut-off       | 27  | 3    | 26    | 4   | 27    | 3   | 27  | 3   | 27  | 3   |
| Cut-off            | 15  | 15   | 14    | 16  | 15    | 15  | 15  | 14  | 16  | 14  |
| +25% Cut-off       | 4   | 26   | 3     | 27  | 4     | 26  | 4   | 26  | 5   | 25  |
| +50% Cut-off       | 0   | 30   | 0     | 30  | 0     | 30  | 0   | 30  | 0   | 30  |
| +300% Cut-off      | 0   | 30   | 0     | 30  | 0     | 30  | 0   | 30  | 0   | 30  |

**Analytical Specificity**

The following table lists the concentrations of compounds (ng/mL) that are detected as positive in urine by the Multi-Drug Rapid Test at 1 minutes.

| Analytes                           | conc. (ng/mL) | Analytes            | conc. (ng/mL) |
|------------------------------------|---------------|---------------------|---------------|
| <b>ACETAMINOPHEN (ACE 5,000)</b>   |               |                     |               |
| Acetaminophen                      | 5,000         |                     |               |
| <b>AMPHETAMINE (AMP 1,000)</b>     |               |                     |               |
| D,L-Amphetamine sulfate            | 300           | Phentermine         | 1,000         |
| L-Amphetamine                      | 25,000        | Maprotiline         | 50,000        |
| (±) 3,4-Methylenedioxy amphetamine | 500           | Methoxyphenamine    | 6,000         |
|                                    |               | D-Amphetamine       | 1,000         |
| <b>AMPHETAMINE (AMP 500)</b>       |               |                     |               |
| D,L-Amphetamine sulfate            | 150           | Phentermine         | 500           |
| L-Amphetamine                      | 12,500        | Maprotiline         | 25,000        |
| (±) 3,4-Methylenedioxy amphetamine | 250           | Methoxyphenamine    | 3,000         |
|                                    |               | D-Amphetamine       | 500           |
| <b>AMPHETAMINE (AMP 300)</b>       |               |                     |               |
| D,L-Amphetamine sulfate            | 75            | Phentermine         | 300           |
| L-Amphetamine                      | 10,000        | Maprotiline         | 15,000        |
| (±) 3,4-Methylenedioxy amphetamine | 150           | Methoxyphenamine    | 2,000         |
|                                    |               | D-Amphetamine       | 300           |
| <b>BARBITURATES (BAR 300)</b>      |               |                     |               |
| Amobarbital                        | 5,000         | Alphenol            | 600           |
| 5,5-Diphenylhydantoin              | 8,000         | Aprobarbital        | 500           |
| Allobarbitol                       | 600           | Butabarbital        | 200           |
| Barbital                           | 8,000         | Butalbital          | 8,000         |
| Talbutal                           | 200           | Butethal            | 500           |
| Cyclopentobarbital                 | 30,000        | Phenobarbital       | 300           |
| Pentobarbital                      | 8,000         | Secobarbital        | 300           |
| <b>BARBITURATES (BAR 200)</b>      |               |                     |               |
| Amobarbital                        | 3,000         | Alphenol            | 400           |
| 5,5-Diphenylhydantoin              | 5,000         | Aprobarbital        | 300           |
| Allobarbitol                       | 400           | Butabarbital        | 150           |
| Barbital                           | 5,000         | Butalbital          | 5,000         |
| Talbutal                           | 150           | Butethal            | 300           |
| Cyclopentobarbital                 | 20,000        | Phenobarbital       | 200           |
| Pentobarbital                      | 5,000         | Secobarbital        | 200           |
| <b>BENZODIAZEPINES (BZO 500)</b>   |               |                     |               |
| Alprazolam                         | 200           | Bromazepam          | 1,500         |
| a-hydroxyalprazolam                | 2,500         | Chlordiazepoxide    | 1,500         |
| Clobazam                           | 300           | Nitrazepam          | 300           |
| Clonazepam                         | 800           | Norchlordiazepoxide | 200           |
| Clorazepatedipotassium             | 800           | Nordiazepam         | 1,500         |
| Delorazepam                        | 1,500         | Oxazepam            | 500           |
| Desalkylflurazepam                 | 300           | Temazepam           | 300           |
| Flunitrazepam                      | 300           | Diazepam            | 500           |
| (±) Lorazepam                      | 5,000         | Estazolam           | 10,000        |
| RS-Lorazepamglucuronide            | 300           | Triazolam           | 5,000         |
| Midazolam                          | 10,000        |                     |               |
| <b>BENZODIAZEPINES (BZO 300)</b>   |               |                     |               |
| Alprazolam                         | 100           | Bromazepam          | 900           |
| a-hydroxyalprazolam                | 1,500         | Chlordiazepoxide    | 900           |
| Clobazam                           | 200           | Nitrazepam          | 200           |
| Clonazepam                         | 500           | Norchlordiazepoxide | 100           |
| Clorazepatedipotassium             | 500           | Nordiazepam         | 900           |
| Delorazepam                        | 900           | Oxazepam            | 300           |
| Desalkylflurazepam                 | 200           | Temazepam           | 100           |
| Flunitrazepam                      | 200           | Diazepam            | 300           |
| (±) Lorazepam                      | 3,000         | Estazolam           | 6,000         |
| RS-Lorazepamglucuronide            | 200           | Triazolam           | 3,000         |
| Midazolam                          | 6,000         |                     |               |
| <b>BENZODIAZEPINES (BZO 200)</b>   |               |                     |               |
| Alprazolam                         | 70            | Bromazepam          | 600           |
| a-hydroxyalprazolam                | 1,000         | Chlordiazepoxide    | 600           |

|                                   |         |                                  |         |
|-----------------------------------|---------|----------------------------------|---------|
| Clobazam                          | 120     | Nitrazepam                       | 120     |
| Clonazepam                        | 300     | Norchlordiazepoxide              | 70      |
| Clorazepatedipotassium            | 300     | Nordiazepam                      | 600     |
| Delorazepam                       | 600     | Oxazepam                         | 200     |
| Desalkylflurazepam                | 120     | Temazepam                        | 70      |
| Flunitrazepam                     | 120     | Diazepam                         | 200     |
| (±) Lorazepam                     | 2,000   | Estazolam                        | 4,000   |
| RS-Lorazepamglucuronide           | 120     | Triazolam                        | 2,000   |
| Midazolam                         | 4,000   |                                  |         |
| <b>BENZODIAZEPINES (BZO 100)</b>  |         |                                  |         |
| Alprazolam                        | 40      | Bromazepam                       | 300     |
| a-hydroxyalprazolam               | 500     | Chlordiazepoxide                 | 300     |
| Clobazam                          | 60      | Nitrazepam                       | 60      |
| Clonazepam                        | 150     | Norchlordiazepoxide              | 40      |
| Clorazepatedipotassium            | 150     | Nordiazepam                      | 300     |
| Delorazepam                       | 300     | Oxazepam                         | 100     |
| Desalkylflurazepam                | 60      | Temazepam                        | 40      |
| Flunitrazepam                     | 60      | Diazepam                         | 100     |
| (±) Lorazepam                     | 1,000   | Estazolam                        | 2,000   |
| RS-Lorazepamglucuronide           | 60      | Triazolam                        | 1,000   |
| Midazolam                         | 2,000   |                                  |         |
| <b>BUPRENORPHINE (BUP 10)</b>     |         |                                  |         |
| Buprenorphine                     | 10      | Norbuprenorphine                 | 50      |
| Buprenorphine 3-D-Glucuronide     | 50      | Norbuprenorphine 3-D-Glucuronide | 100     |
| <b>BUPRENORPHINE (BUP 5)</b>      |         |                                  |         |
| Buprenorphine                     | 5       | Norbuprenorphine                 | 25      |
| Buprenorphine 3-D-Glucuronide     | 25      | Norbuprenorphine 3-D-Glucuronide | 50      |
| <b>COCAINE (COC 1,500)</b>        |         |                                  |         |
| Benzoyllecgonine                  | 1,500   | Cocaethylene                     | 100,000 |
| Cocaine HCl                       | 1200    | Ecgonine                         | 150,000 |
| <b>COCAINE (COC 300)</b>          |         |                                  |         |
| Benzoyllecgonine                  | 300     | Cocaethylene                     | 20,000  |
| Cocaine HCl                       | 200     | Ecgonine                         | 30,000  |
| <b>COCAINE (COC 200)</b>          |         |                                  |         |
| Benzoyllecgonine                  | 200     | Cocaethylene                     | 13,500  |
| Cocaine HCl                       | 135     | Ecgonine                         | 20,000  |
| <b>COCAINE (COC 150)</b>          |         |                                  |         |
| Benzoyllecgonine                  | 150     | Cocaethylene                     | 1,0000  |
| Cocaine HCl                       | 120     | Ecgonine                         | 15,000  |
| <b>COCAINE (COC 100)</b>          |         |                                  |         |
| Benzoyllecgonine                  | 100     | Cocaethylene                     | 7,000   |
| Cocaine HCl                       | 80      | Ecgonine                         | 10,000  |
| <b>MARIJUANA (THC 300)</b>        |         |                                  |         |
| Cannabinol                        | 200,000 | Δ <sup>8</sup> -THC              | 100,000 |
| 11-nor-Δ <sup>8</sup> -THC-9 COOH | 200     | Δ <sup>9</sup> -THC              | 100,000 |
| 11-nor-Δ <sup>9</sup> -THC-9 COOH | 300     |                                  |         |
| <b>MARIJUANA (THC 200)</b>        |         |                                  |         |
| Cannabinol                        | 140,000 | Δ <sup>8</sup> -THC              | 68,000  |
| 11-nor-Δ <sup>8</sup> -THC-9 COOH | 120     | Δ <sup>9</sup> -THC              | 68,000  |
| 11-nor-Δ <sup>9</sup> -THC-9 COOH | 200     |                                  |         |
| <b>MARIJUANA (THC 150)</b>        |         |                                  |         |
| Cannabinol                        | 100,000 | Δ <sup>8</sup> -THC              | 50,000  |
| 11-nor-Δ <sup>8</sup> -THC-9 COOH | 100     | Δ <sup>9</sup> -THC              | 50,000  |
| 11-nor-Δ <sup>9</sup> -THC-9 COOH | 150     |                                  |         |
| <b>MARIJUANA (THC 50)</b>         |         |                                  |         |
| Cannabinol                        | 35,000  | Δ <sup>8</sup> -THC              | 17,000  |
| 11-nor-Δ <sup>8</sup> -THC-9 COOH | 30      | Δ <sup>9</sup> -THC              | 17,000  |
| 11-nor-Δ <sup>9</sup> -THC-9 COOH | 50      |                                  |         |
| <b>MARIJUANA (THC 30)</b>         |         |                                  |         |

|  |        |  |         |
|--|--------|--|---------|
| Cannabinol   | 20,000 | Δ <sup>8</sup> -THC                    | 10,000  |
| 11-nor-Δ <sup>8</sup> -THC-9 COOH                          | 20     | Δ <sup>9</sup> -THC                    | 10,000  |
| 11-nor-Δ <sup>9</sup> -THC-9 COOH                          | 30     |  |         |
| <b>MARIJUANA (THC 25)</b>                                  |        |  |         |
| Cannabinol   | 17,500 | Δ <sup>8</sup> -THC                    | 8,500   |
| 11-nor-Δ <sup>8</sup> -THC-9 COOH                          | 15     | Δ <sup>9</sup> -THC                    | 8,500   |
| 11-nor-Δ <sup>9</sup> -THC-9 COOH                          | 25     |  |         |
| <b>MARIJUANA (THC 20)</b>                                  |        |  |         |
| Cannabinol   | 14,000 | Δ <sup>8</sup> -THC                    | 6,800   |
| 11-nor-Δ <sup>8</sup> -THC-9 COOH                          | 12     | Δ <sup>9</sup> -THC                    | 6,800   |
| 11-nor-Δ <sup>9</sup> -THC-9 COOH                          | 20     |  |         |
| <b>METHADONE (MTD 300)</b>                                 |        |  |         |
| Methadone  | 300    | Doxylamine                             | 100,000 |
| <b>METHADONE (MTD 200)</b>                                 |        |  |         |
| Methadone  | 200    | Doxylamine                             | 65,000  |
| <b>METHADONE (MTD 100)</b>                                 |        |  |         |
| Methadone  | 100    | Doxylamine                             | 32,500  |
| <b>METHAMPHETAMINE (MET 1, 000)</b>                        |        |  |         |
| D-Hydroxymethamphetamine                                   | 25,000 | (±)-3,4-Methylenedioxy-methamphetamine | 12,500  |
| D-Methamphetamine  | 1,000  |  |         |
| L-Methamphetamine  | 20,000 | Mephentermine                          | 50,000  |
| <b>METHAMPHETAMINE (MET 500)</b>                           |        |  |         |
| D-Hydroxymethamphetamine                                   | 12,500 | (±)-3,4-Methylenedioxy-methamphetamine | 6,250   |
| D-Methamphetamine  | 500    |  |         |
| L-Methamphetamine  | 10,000 |  | 25,000  |
| <b>METHAMPHETAMINE (MET 300)</b>                           |        |  |         |
| D-Hydroxymethamphetamine                                   | 7,500  | (±)-3,4-Methylenedioxy-methamphetamine | 3,750   |
| D-Methamphetamine  | 300    |  |         |
| L-Methamphetamine  | 6,000  | Mephentermine                          | 15,000  |
| <b>METHAMPHETAMINE (MET 200)</b>                           |        |  |         |
| D-Hydroxymethamphetamine                                   | 5,000  | (±)-3,4-Methylenedioxy-methamphetamine | 2,500   |
| D-Methamphetamine  | 200    |  |         |
| L-Methamphetamine  | 4,000  | Mephentermine                          | 10,000  |
| <b>METHYLENEDIOXYMETHAMPHETAMINE (MDMA 1, 000) Ecstasy</b> |        |  |         |
| (±) 3,4-Methylenedioxy-methamphetamine HCl                 | 1,000  | 3,4-Methylenedioxyethyl-amphetamine    | 600     |
| (±) 3,4-Methylenedioxyampheta mine HCl                     | 6,000  |  |         |
| <b>METHYLENEDIOXYMETHAMPHETAMINE (MDMA 500) Ecstasy</b>    |        |  |         |
| (±) 3,4-Methylenedioxy-methamphetamine HCl                 | 500    | 3,4-Methylenedioxyethyl-amphetamine    | 300     |
| (±) 3,4-Methylenedioxyampheta mine HCl                     | 3,000  |  |         |
| <b>METHYLENEDIOXYMETHAMPHETAMINE (MDMA 300) Ecstasy</b>    |        |  |         |
| (±) 3,4-Methylenedioxy-methamphetamine HCl                 | 300    | 3,4-Methylenedioxyethyl-amphetamine    | 180     |
| (±) 3,4-Methylenedioxyampheta mine HCl                     | 1,800  |  |         |
| <b>MORPHINE (MOP/OPI 300)</b>                              |        |  |         |
| Codeine  | 200    | Norcodeine                             | 6,000   |
| Levorphanol  | 1,500  | Normorphine                            | 50,000  |
| Morphine-3-β-D-Glucuronide                                 | 800    | Oxycodone                              | 30,000  |
| Ethylmorphine  | 6,000  | Oxymorphone                            | 50,000  |
| Hydrocodone  | 50,000 | Procaine                               | 15,000  |
| Hydromorphone  | 3,000  | Thebaine                               | 6,000   |
| 6-Monoacetylmorphine                                       | 300    | Morphine                               | 300     |
| <b>MORPHINE (MOP/OPI 200)</b>                              |        |  |         |
| Codeine  | 160    | Norcodeine                             | 4,000   |
| Levorphanol  | 1,000  | Normorphine                            | 40,000  |
| Morphine-3-β-D-Glucuronide                                 | 600    | Oxycodone                              | 20,000  |
| Ethylmorphine  | 4,000  | Oxymorphone                            | 40,000  |

|  |        |                        |        |
|--|--------|------------------------|--------|
| Hydrocodone                                  | 40,000 | Procaine               | 10,000 |
| Hydromorphone                                | 2,000  | Thebaine               | 4,000  |
| 6-Monoacetylmorphine                         | 200    | Morphine               | 200    |
| <b>MORPHINE (MOP/OPI 100)</b>                |        |                        |        |
| Codeine                                      | 80     | Norcodeine             | 2,000  |
| Levorphanol                                  | 500    | Normorphine            | 20,000 |
| Morphine-3-β-D-Glucuronide                   | 300    | Oxycodone              | 10,000 |
| Ethylmorphine                                | 2,000  | Oxymorphone            | 20,000 |
| Hydrocodone                                  | 20,000 | Procaine               | 5,000  |
| Hydromorphone                                | 1,000  | Thebaine               | 2,000  |
| 6-Monoacetylmorphine                         | 200    | Morphine               | 100    |
| <b>METHAQUALONE (MQL 300)</b>                |        |                        |        |
| Methaqualone                                 | 300    |                        |        |
| <b>MORPHINE/OPIATE (OPI 2,000)</b>           |        |                        |        |
| Codeine                                      | 2,000  | Morphine               | 2,000  |
| Ethylmorphine                                | 3,000  | Norcodeine             | 25,000 |
| Hydrocodone                                  | 50,000 | Normorphine            | 50,000 |
| Hydromorphone                                | 15,000 | Oxycodone              | 25,000 |
| Levorphanol                                  | 25,000 | Oxymorphone            | 25,000 |
| 6-Monoacetylmorphine                         | 3,000  | Procaine               | 50,000 |
| Morphine 3-β-D-glucuronide                   | 2,000  | Thebaine               | 25,000 |
| <b>MORPHINE/OPIATE (OPI 1,000)</b>           |        |                        |        |
| Codeine                                      | 1,000  | Morphine               | 1,000  |
| Ethylmorphine                                | 1,500  | Norcodeine             | 12,500 |
| Hydrocodone                                  | 25,000 | Normorphine            | 25,000 |
| Hydromorphone                                | 7,500  | Oxycodone              | 12,500 |
| Levorphanol                                  | 12,500 | Oxymorphone            | 12,500 |
| 6-Monoacetylmorphine                         | 1,500  | Procaine               | 25,000 |
| Morphine 3-β-D-glucuronide                   | 1,000  | Thebaine               | 12,500 |
| <b>MEPERIDINE (MPRD 100)</b>                 |        |                        |        |
| Normeperidine                                | 100    | Meperidine             | 100    |
| <b>PHENCYCLIDINE (PCP 50)</b>                |        |                        |        |
| Phencyclidine                                | 50     | 4-Hydroxyphencyclidine | 25,000 |
| <b>PHENCYCLIDINE (PCP 25)</b>                |        |                        |        |
| Phencyclidine                                | 25     | 4-Hydroxyphencyclidine | 12,500 |
| <b>PROPOXYPHENE (PPX 300)</b>                |        |                        |        |
| D-Propoxyphene                               | 300    | D-Norpropoxyphene      | 300    |
| <b>TRICYCLIC ANTIDEPRESSANTS (TCA 1,000)</b> |        |                        |        |
| Nortriptyline                                | 1,000  | Imipramine             | 400    |
| Nordoxepine                                  | 500    | Clomipramine           | 50,000 |
| Trimipramine                                 | 3,000  | Doxepine               | 2,000  |
| Amitriptyline                                | 1,500  | Maprotiline            | 2,000  |
| Promazine                                    | 3,000  | Promethazine           | 50,000 |
| Desipramine                                  | 200    | Perphenazine           | 50,000 |
| Cyclobenzaprine                              | 2,000  | Dithiaden              | 10,000 |
| <b>TRICYCLIC ANTIDEPRESSANTS (TCA 500)</b>   |        |                        |        |
| Nortriptyline                                | 500    | Imipramine             | 200    |
| Nordoxepine                                  | 250    | Clomipramine           | 25,000 |
| Trimipramine                                 | 1,500  | Doxepine               | 1,000  |
| Amitriptyline                                | 750    | Maprotiline            | 1,000  |
| Promazine                                    | 1,500  | Promethazine           | 25,000 |
| Desipramine                                  | 100    | Perphenazine           | 25,000 |
| Cyclobenzaprine                              | 1,000  | Dithiaden              | 5,000  |
| <b>TRICYCLIC ANTIDEPRESSANTS (TCA 300)</b>   |        |                        |        |
| Nortriptyline                                | 300    | Imipramine             | 120    |
| Nordoxepine                                  | 150    | Clomipramine           | 15,000 |
| Trimipramine                                 | 900    | Doxepine               | 600    |
| Amitriptyline                                | 450    | Maprotiline            | 600    |
| Promazine                                    | 900    | Promethazine           | 15,000 |
| Desipramine                                  | 60     | Perphenazine           | 15,000 |
| Cyclobenzaprine                              | 600    | Dithiaden              | 3,000  |

| TRAMADOL (TML 100)       |         |                                      |         |
|--------------------------|---------|--------------------------------------|---------|
| n-Desmethyl-cis-tramadol | 200     | o-Desmethyl-cis-tramadol             | 10,000  |
| Cis-tramadol             | 100     | Phencyclidine                        | 100,000 |
| Procyclidine             | 100,000 | d,l-O-Desmethyl venlafaxine          | 50,000  |
| TRAMADOL (TML 200)       |         |                                      |         |
| n-Desmethyl-cis-tramadol | 400     | o-Desmethyl-cis-tramadol             | 20,000  |
| Cis-tramadol             | 200     | Phencyclidine                        | 200,000 |
| Procyclidine             | 200,000 | d,l-O-Desmethyl venlafaxine          | 100,000 |
| TRAMADOL (TML 300)       |         |                                      |         |
| n-Desmethyl-cis-tramadol | 600     | o-Desmethyl-cis-tramadol             | 30,000  |
| Cis-tramadol             | 300     | Phencyclidine                        | 300,000 |
| Procyclidine             | 300,000 | d,l-O-Desmethyl venlafaxine          | 150,000 |
| TRAMADOL (TML 500)       |         |                                      |         |
| n-Desmethyl-cis-tramadol | 10,000  | o-Desmethyl-cis-tramadol             | 50,000  |
| Cis-tramadol             | 500     | Phencyclidine                        | 500,000 |
| Procyclidine             | 500,000 | d,l-O-Desmethyl venlafaxine          | 250,000 |
| KETAMINE (KET 1, 000)    |         |                                      |         |
| Ketamine                 | 1,000   | Benzphetamine                        | 25,000  |
| Dextromethorphan         | 2,000   | (+) Chlorpheniramine                 | 25,000  |
| Methoxyphenamine         | 25,000  | Clonidine                            | 100,000 |
| d-Norpropoxyphene        | 25,000  | EDDP                                 | 50,000  |
| Promazine                | 25,000  | 4-Hydroxyphencyclidine               | 50,000  |
| Promethazine             | 25,000  | Levorphanol                          | 50,000  |
| Pentazocine              | 25,000  | MDE                                  | 50,000  |
| Phencyclidine            | 25,000  | Meperidine                           | 25,000  |
| Tetrahydrozoline         | 500     | d-Methamphetamine                    | 50,000  |
| Mephentermine            | 25,000  | l-Methamphetamine                    | 50,000  |
| (1R, 2S) - (-)-Ephedrine | 100,000 | 3,4-Methylenedioxyamphetamine (MDMA) | 100,000 |
| Disopyramide             | 25,000  | Thioridazine                         | 50,000  |
| KETAMINE (KET 500)       |         |                                      |         |
| Ketamine                 | 500     | Benzphetamine                        | 12,500  |
| Dextromethorphan         | 1,000   | (+) Chlorpheniramine                 | 12,500  |
| Methoxyphenamine         | 12,500  | Clonidine                            | 50,000  |
| d-Norpropoxyphene        | 12,500  | EDDP                                 | 25,000  |
| Promazine                | 12,500  | 4-Hydroxyphencyclidine               | 25,000  |
| Promethazine             | 12,500  | Levorphanol                          | 25,000  |
| Pentazocine              | 12,500  | MDE                                  | 25,000  |
| Phencyclidine            | 12,500  | Meperidine                           | 12,500  |
| Tetrahydrozoline         | 250     | d-Methamphetamine                    | 25,000  |
| Mephentermine            | 12,500  | l-Methamphetamine                    | 25,000  |
| (1R, 2S) - (-)-Ephedrine | 50,000  | 3,4-Methylenedioxyamphetamine (MDMA) | 50,000  |
| Disopyramide             | 12,500  | Thioridazine                         | 25,000  |
| KETAMINE (KET 300)       |         |                                      |         |
| Ketamine                 | 300     | Benzphetamine                        | 6,250   |
| Dextromethorphan         | 600     | (+) Chlorpheniramine                 | 6,250   |
| Methoxyphenamine         | 6,250   | Clonidine                            | 30,000  |
| d-Norpropoxyphene        | 6,250   | EDDP                                 | 15,000  |
| Promazine                | 6,250   | 4-Hydroxyphencyclidine               | 15,000  |
| Promethazine             | 6,250   | Levorphanol                          | 15,000  |
| Pentazocine              | 6,250   | MDE                                  | 15,000  |
| Phencyclidine            | 6,250   | Meperidine                           | 6,250   |
| Tetrahydrozoline         | 150     | d-Methamphetamine                    | 15,000  |
| Mephentermine            | 6,250   | l-Methamphetamine                    | 15,000  |
| (1R, 2S) - (-)-Ephedrine | 30,000  | 3,4-Methylenedioxyamphetamine (MDMA) | 30,000  |
| Disopyramide             | 6,250   | Thioridazine                         | 15,000  |
| KETAMINE (KET 100)       |         |                                      |         |
| Ketamine                 | 100     | Benzphetamine                        | 2,000   |
| Dextromethorphan         | 200     | (+) Chlorpheniramine                 | 2,000   |

| Methoxyphenamine   | 2,000    | Clonidine                            | 10,000  |
|--|----------|--------------------------------------|---------|
| d-Norpropoxyphene  | 2,000    | EDDP                                 | 5,000   |
| Promazine  | 2,000    | 4-Hydroxyphencyclidine               | 5,000   |
| Promethazine   | 2,000    | Levorphanol                          | 5,000   |
| Pentazocine  | 2,000    | MDE                                  | 5,000   |
| Phencyclidine  | 2,000    | Meperidine                           | 2,000   |
| Tetrahydrozoline   | 50       | d-Methamphetamine                    | 5,000   |
| Mephentermine  | 2,000    | l-Methamphetamine                    | 5,000   |
| (1R, 2S) - (-)-Ephedrine                                     | 10,000   | Thioridazine                         | 5,000   |
| Disopyramide   | 2,000    | 3,4-Methylenedioxyamphetamine (MDMA) | 10,000  |
| OXYCODONE (OXY 300)  |          |                                      |         |
| Oxycodone  | 300      | Hydromorphone                        | 150,000 |
| Oxymorphone  | 900      | Naloxone                             | 75,000  |
| Levorphanol  | 15,000   | Naltrexone                           | 75,000  |
| Hydrocodone  | 75,000   |                                      |         |
| OXYCODONE (OXY 100)  |          |                                      |         |
| Oxycodone  | 100      | Hydromorphone                        | 50,000  |
| Oxymorphone  | 300      | Naloxone                             | 25,000  |
| Levorphanol  | 50,000   | Naltrexone                           | 25,000  |
| Hydrocodone  | 25,000   |                                      |         |
| COTININE (COT 300)   |          |                                      |         |
| (-)-Cotinine   | 300      | (-)-Nicotine                         | 7,500   |
| COTININE (COT 200)   |          |                                      |         |
| (-)-Cotinine   | 200      | (-)-Nicotine                         | 5,000   |
| COTININE (COT 100)   |          |                                      |         |
| (-)-Cotinine   | 100      | (-)-Nicotine                         | 2,500   |
| COTININE (COT 500)   |          |                                      |         |
| (-)-Cotinine   | 500      | (-)-Nicotine                         | 12,500  |
| COTININE (COT 50)  |          |                                      |         |
| (-)-Cotinine   | 50       | (-)-Nicotine                         | 1,250   |
| COTININE (COT 10)  |          |                                      |         |
| (-)-Cotinine   | 10       | (-)-Nicotine                         | 250     |
| 2-ETHYLIDENE-1,5-DIMETHYL-3,3-DIPHENYLPYRROLIDINE (EDDP 300) |          |                                      |         |
| 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)     |          |                                      | 300     |
| 2-ETHYLIDENE-1,5-DIMETHYL-3,3-DIPHENYLPYRROLIDINE (EDDP 100) |          |                                      |         |
| 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)     |          |                                      | 100     |
| FENTANYL (FYL 300)   |          |                                      |         |
| Alfentanyl   | >600,000 | Buspirone                            | 80,000  |
| Norfentanyl  | 60       | Fentanyl                             | 300     |
| Fenfluramine   | 150,000  | Sufentanyl                           | 150,000 |
| FENTANYL (FYL 200)   |          |                                      |         |
| Alfentanyl   | >600,000 | Buspirone                            | 30,000  |
| Fenfluramine   | 100,000  | Fentanyl                             | 200     |
| Norfentanyl  | 40       | Sufentanyl                           | 100,000 |
| FENTANYL (FYL 100)   |          |                                      |         |
| Alfentanyl   | 600,000  | Buspirone                            | 15,000  |
| Fenfluramine   | 50,000   | Fentanyl                             | 100     |
| Norfentanyl  | 20       | Sufentanyl                           | 50,000  |
| FENTANYL (FYL 20)  |          |                                      |         |
| Alfentanyl   | 600,000  | Buspirone                            | 15,000  |
| Fenfluramine   | 50,000   | Fentanyl                             | 100     |
| Norfentanyl  | 20       | Sufentanyl                           | 50,000  |
| paliperidone   | 1,250    | Risperidone                          | 5,000   |
| FENTANYL (FYL 10)  |          |                                      |         |
| Alfentanyl   | 300,000  | Buspirone                            | 8,000   |
| Fenfluramine   | 25,000   | Fentanyl                             | 50      |
| Norfentanyl  | 10       | Sufentanyl                           | 25,000  |
| paliperidone   | 500      | Risperidone                          | 2,500   |
| SYNTHETIC MARIJUANA (K2-50)                                  |          |                                      |         |
| JWH-018 5-Pentanoic acid                                     | 50       | JWH-073 4-butanoic acid              | 50      |

| JWH-018 4-Hydroxypentyl                      | 400      | JWH-018 5-Hydroxypentyl | 500      |
|--|----------|-------------------------|----------|
| JWH-073 4-Hydroxybutyl                       | 500      |                         |          |
| SYNTHETIC MARIJUANA (K2-30)                  |          |                         |          |
| JWH-018 5-Pentanoic acid                     | 30       | JWH-073 4-butanoic acid | 30       |
| JWH-018 4-Hydroxypentyl                      | 250      | JWH-018 5-Hydroxypentyl | 300      |
| JWH-073 4-Hydroxybutyl                       | 300      |                         |          |
| SYNTHETIC MARIJUANA (K2-25)                  |          |                         |          |
| JWH-018 5-Pentanoic acid                     | 25       | JWH-073 4-butanoic acid | 25       |
| JWH-018 4-Hydroxypentyl                      | 200      | JWH-018 5-Hydroxypentyl | 250      |
| JWH-073 4-Hydroxybutyl                       | 250      |                         |          |
| 6-MONOACETYLMORPHINE (6-MAM 10)              |          |                         |          |
| 6-Monoacetylmorphine                         | 10       | Morphine                | 100,000  |
| (±) 3, 4-METHYLENEDIOXYAMPHETAMINE (MDA 500) |          |                         |          |
| (±) 3,4-Methylenedioxyamphetamine            | 500      | Methoxyphenamine        | 6,000    |
|  |          | D-Amphetamine           | 2,000    |
| D,L-Amphetamine sulfate                      | 300      | Phentermine             | 1,000    |
| L-Amphetamine                                | 25,000   | Maprotiline             | 50,000   |
| ETHYL-β-D-GLUCURONIDE (ETG 300)              |          |                         |          |
| Ethyl- β -D-Glucuronide                      | 300      | Propyl β-D-glucuronide  | 30,000   |
| Morphine 3β-glucuronide                      | 60,000   | Morphine 6β-glucuronide | 60,000   |
| Glucuronic Acid                              | 60,000   | Ethanol                 | >100,000 |
| Methanol                                     | >100,000 |                         |          |
| ETHYL-β-D-GLUCURONIDE (ETG 500)              |          |                         |          |
| Ethyl- β -D-Glucuronide                      | 500      | Propyl β-D-glucuronide  | 50,000   |
| Morphine 3β-glucuronide                      | 100,000  | Morphine 6β-glucuronide | 100,000  |
| Glucuronic Acid                              | 100,000  | Ethanol                 | >100,000 |
| Methanol                                     | >100,000 |                         |          |
| ETHYL-β-D-GLUCURONIDE (ETG 1,000)            |          |                         |          |
| Ethyl- β -D-Glucuronide                      | 1,000    | Propyl β-D-glucuronide  | 100,000  |
| Morphine 3β-glucuronide                      | >100,000 | Morphine 6β-glucuronide | >100,000 |
| Glucuronic Acid                              | >100,000 | Ethanol                 | >100,000 |
| Methanol                                     | >100,000 |                         |          |
| ETHYL-β-D-GLUCURONIDE (ETG 1,500)            |          |                         |          |
| Ethyl- β -D-Glucuronide                      | 1,500    | Propyl β-D-glucuronide  | 150,000  |
| Morphine 3β-glucuronide                      | >100,000 | Morphine 6β-glucuronide | >100,000 |
| Glucuronic Acid                              | >100,000 | Ethanol                 | >100,000 |
| Methanol                                     | >100,000 |                         |          |
| CLONAZEPAM (CLO 400)                         |          |                         |          |
| Clonazepam                                   | 400      | Flunitrazepam           | 300      |
| Alprazolam                                   | 200      | (±) Lorazepam           | 1,250    |
| a-hydroxylalprazolam                         | 2,000    | RS-Lorazepamglucuronide | 250      |
| Bromazepam                                   | 1,000    | Midazolam               | 5,000    |
| Chlordiazepoxide                             | 1,000    | Nitrazepam              | 200      |
| Clobazam                                     | 250      | Norchlordiazepoxide     | 200      |
| Clorazepatedipotassium                       | 600      | Nordiazepam             | 1,000    |
| Delorazepam                                  | 1,000    | Oxazepam                | 350      |
| Desalkylflurazepam                           | 250      | Temazepam               | 150      |
| Diazepam                                     | 300      | Triazolam               | 5,000    |
| Estazolam                                    | 1,250    |                         |          |
| CLONAZEPAM (CLO 150)                         |          |                         |          |
| Clonazepam                                   | 150      | Flunitrazepam           | 120      |
| Alprazolam                                   | 75       | (±) Lorazepam           | 500      |
| a-hydroxylalprazolam                         | 750      | RS-Lorazepamglucuronide | 100      |
| Bromazepam                                   | 400      | Midazolam               | 2,000    |
| Chlordiazepoxide                             | 400      | Nitrazepam              | 75       |
| Clobazam                                     | 100      | Norchlordiazepoxide     | 75       |
| Clorazepatedipotassium                       | 250      | Nordiazepam             | 400      |
| Delorazepam                                  | 400      | Oxazepam                | 130      |
| Desalkylflurazepam                           | 100      | Temazepam               | 60       |
| Diazepam                                     | 120      | Triazolam               | 2,000    |
| Estazolam                                    | 500      |                         |          |

| LYSERGIC ACID DIETHYLAMIDE (LSD 10)          |         |                           |         |
|--|---------|---------------------------|---------|
| Lysergic Acid Diethylamide                   | 10      |                           |         |
| LYSERGIC ACID DIETHYLAMIDE (LSD 20)          |         |                           |         |
| Lysergic Acid Diethylamide                   | 20      |                           |         |
| LYSERGIC ACID DIETHYLAMIDE (LSD 50)          |         |                           |         |
| Lysergic Acid Diethylamide                   | 50      |                           |         |
| METHYLPHENIDATE (MPD 300)                    |         |                           |         |
| Methylphenidate (Ritalin)                    | 300     | Ritalinic Acid            | 1,000   |
| METHYLPHENIDATE (MPD 150)                    |         |                           |         |
| Methylphenidate (Ritalin)                    | 150     | Ritalinic Acid            | 500     |
| METHYLPHENIDATE (MPD 1,000)                  |         |                           |         |
| Methylphenidate (Ritalin)                    | 350     | Ritalinic Acid            | 1,000   |
| ZOLPIDEM (ZOL 50)                            |         |                           |         |
| Zolpidem                                     | 50      |                           |         |
| ZOLPIDEM (ZOL 25)                            |         |                           |         |
| Zolpidem                                     | 25      |                           |         |
| MEPHEDRONE (MEP 500)                         |         |                           |         |
| Mephedrone HCl                               | 500     | R(+)-Methcathinone HCl    | 7,500   |
| S(-)-Methcathinone HCl                       | 2,500   | 3-Fluoromethcathinone HCl | 7,500   |
| 4-Fluoromethcathinone HCl                    | 1,500   | Methoxyphenamine          | 100,000 |
| MEPHEDRONE (MEP 100)                         |         |                           |         |
| Mephedrone HCl                               | 100     | R(+)-Methcathinone HCl    | 1,500   |
| S(-)-Methcathinone HCl                       | 500     | 3-Fluoromethcathinone HCl | 1,500   |
| 4-Fluoromethcathinone HCl                    | 300     | Methoxyphenamine          | 100,000 |
| 3, 4-METHYLENEDIOXYPYROVALERONE (MDPV 1,000) |         |                           |         |
| 3, 4-methylenedioxypropylvalerone            | 1,000   |                           |         |
| 3, 4-METHYLENEDIOXYPYROVALERONE (MDPV 500)   |         |                           |         |
| 3, 4-methylenedioxypropylvalerone            | 500     |                           |         |
| 3, 4-METHYLENEDIOXYPYROVALERONE (MDPV 300)   |         |                           |         |
| 3, 4-methylenedioxypropylvalerone            | 300     |                           |         |
| DIAZEPAM (DIA 300)                           |         |                           |         |
| Diazepam                                     | 300     | Midazolam                 | 6,000   |
| Clobazam                                     | 200     | Nitrazepam                | 200     |
| Clonazepam                                   | 500     | Norchlordiazepoxide       | 100     |
| Clorazepate dipotassium                      | 500     | Nordiazepam               | 900     |
| Alprazolam                                   | 100     | Flunitrazepam             | 200     |
| a-hydroxyalprazolam                          | 1,500   | (±) Lorazepam             | 3,000   |
| Bromazepam                                   | 900     | RS-Lorazepam glucuronide  | 200     |
| Chlordiazepoxide                             | 900     | Triazolam                 | 3,000   |
| Estazolam                                    | 6,000   | Temazepam                 | 100     |
| Delorazepam                                  | 900     | Oxazepam                  | 300     |
| Desalkylflurazepam                           | 200     |                           |         |
| DIAZEPAM (DIA 200)                           |         |                           |         |
| Diazepam                                     | 200     | Midazolam                 | 4,000   |
| Clobazam                                     | 120     | Nitrazepam                | 120     |
| Clonazepam                                   | 300     | Norchlordiazepoxide       | 70      |
| Clorazepate dipotassium                      | 300     | Nordiazepam               | 600     |
| Alprazolam                                   | 70      | Flunitrazepam             | 120     |
| a-hydroxyalprazolam                          | 1,000   | (±) Lorazepam             | 2,000   |
| Bromazepam                                   | 600     | RS-Lorazepam glucuronide  | 120     |
| Chlordiazepoxide                             | 600     | Triazolam                 | 2,000   |
| Estazolam                                    | 4,000   | Temazepam                 | 70      |
| Delorazepam                                  | 600     | Oxazepam                  | 200     |
| Desalkylflurazepam                           | 120     |                           |         |
| ZOPICLONE (ZOP 300)                          |         |                           |         |
| Zopiclone-x-oxide                            | 300     | Zopiclone                 | 300     |
| ZOPICLONE (ZOP 50)                           |         |                           |         |
| Zopiclone-x-oxide                            | 50      | Zopiclone                 | 50      |
| METHCATHINONE (MCAT 500)                     |         |                           |         |
| S(-)-Methcathinone HCl                       | 500     | R(+)-Methcathinone HCl    | 1,500   |
| Methoxyphenamine                             | 100,000 | 3-Fluoromethcathinone HCl | 1,500   |

| 7-AMINOCLONAZEPAM (7-ACL 300)        |        |   |        |
|--------------------------------------|--------|---|--------|
| a-hydroxyalprazolam                  | 6,000  | Flunitrazepam                           | 3,000  |
| Bromazepam                           | 6,000  | RS-Lorazepam glucuronide                | 2,700  |
| Chlordiazepoxide                     | 6,000  | Norchlordiazepoxide                     | 4,500  |
| Clobazam                             | 9,000  | Nordiazepam                             | 15,000 |
| Clonazepam                           | 2,400  | Temazepam                               | 9,000  |
| Delorazepam                          | 6,000  | 7-Aminoclonazepam                       | 300    |
| Desalkylflurazepam                   | 6,000  |   |        |
| 7-AMINOCLONAZEPAM (7-ACL 200)        |        |   |        |
| a-hydroxyalprazolam                  | 4,000  | Flunitrazepam                           | 2,000  |
| Bromazepam                           | 4,000  | RS-Lorazepam glucuronide                | 1,800  |
| Chlordiazepoxide                     | 4,000  | Norchlordiazepoxide                     | 3,000  |
| Clobazam                             | 6,000  | Nordiazepam                             | 10,000 |
| Clonazepam                           | 1,600  | Temazepam                               | 6,000  |
| Delorazepam                          | 4,000  | 7-Aminoclonazepam                       | 200    |
| Desalkylflurazepam                   | 4,000  |   |        |
| 7-AMINOCLONAZEPAM (7-ACL 100)        |        |   |        |
| a-hydroxyalprazolam                  | 2,000  | Flunitrazepam                           | 1,000  |
| Bromazepam                           | 2,000  | RS-Lorazepam glucuronide                | 900    |
| Chlordiazepoxide                     | 2,000  | Norchlordiazepoxide                     | 1,500  |
| Clobazam                             | 3,000  | Nordiazepam                             | 5,000  |
| Clonazepam                           | 800    | Temazepam                               | 3,000  |
| Delorazepam                          | 2,000  | 7-Aminoclonazepam                       | 100    |
| Desalkylflurazepam                   | 2,000  |   |        |
| CARFENTANYL (CFYL 500)               |        |   |        |
| Carfentanyl                          | 500    | Fentanyl                                | 100    |
| Sufentanil                           | 50,000 | Ramifentanil                            | 10,000 |
| (±)cis-3-Methylfentanyl              | 20,000 | Butyl fentanyl                          | 150    |
| CARFENTANYL (CFYL 250)               |        |   |        |
| Carfentanyl                          | 250    | Fentanyl                                | 50     |
| Sufentanil                           | 25,000 | Ramifentanil                            | 5,000  |
| (±)cis-3-Methylfentanyl              | 10,000 | Butyl fentanyl                          | 75     |
| CAFFEINE (CAF 1,000)                 |        |   |        |
| Caffeine                             | 1,000  |   |        |
| CATHINE (CAT 150)                    |        |   |        |
| (+)-Norpseudoephedrine HCl (Cathine) | 150    | (+)-3,4-Methylenedioxyamphetamine (MDA) | 100    |
| d/l-Amphetamine                      | 100    | p-Hydroxyamphetamine                    | 100    |
| Tryptamine                           | 12,500 | Methoxyphenamine                        | 12,500 |
|                                      |        |   |        |
| TROPICAMIDE (TRO 350)                |        |   |        |
| Tropicamide                          | 350    |   |        |
| ALPRAZOLAM (ALP 100)                 |        |   |        |
| Benzodiazepines                      | 300    | Flunitrazepam                           | 200    |
| a-hydroxyalprazolam                  | 1,500  | (±) Lorazepam                           | 3,000  |
| Bromazepam                           | 900    | RS-Lorazepamglucuronide                 | 200    |
| Chlordiazepoxide                     | 900    | Midazolam                               | 6,000  |
| Clobazam                             | 200    | Nitrazepam                              | 200    |
| Clonazepam                           | 500    | Norchlordiazepoxide                     | 100    |
| Clorazepatedipotassium               | 500    | Nordiazepam                             | 900    |
| Delorazepam                          | 900    | Oxazepam                                | 300    |
| Desalkylflurazepam                   | 200    | Temazepam                               | 100    |
| Diazepam                             | 300    | Triazolam                               | 3,000  |
| Estazolam                            | 6,000  | Alprazolam                              | 100    |
| PREGABALIN (PGB 50,000)              |        |   |        |
| Pregabalin                           | 50,000 |   |        |
| PREGABALIN (PGB 500)                 |        |   |        |
| Pregabalin                           | 500    |   |        |
| ZALEPLON (ZAL 100)                   |        |   |        |
| Zaleplon                             | 100    |   |        |
| CANNABINOL (CNB 500)                 |        |   |        |
| cannabinol                           | 500    | Δ <sup>9</sup> -THC                     | 10,000 |

| 11-nor-Δ <sup>9</sup> -THC-9 COOH                          | 300     |  |           |
|--|---------|--|-----------|
| GABAPENTIN (GAB 2,000)                                     |         |  |           |
| Gabapentin   | 2,000   |  |           |
| TRAZODONE (TZD 200)  |         |  |           |
| Trazodone  | 200     |  |           |
| CARISOPRODOL (CAR 2,000)                                   |         |  |           |
| Carisoprodol   | 2,000   |  |           |
| CARISOPRODOL (CAR 1,000)                                   |         |  |           |
| Carisoprodol   | 1,000   |  |           |
| CARISOPRODOL (CAR 500)                                     |         |  |           |
| Carisoprodol   | 500     |  |           |
| AB-PINACA (ABP/K3 10)                                      |         |  |           |
| AB-PINACA  | 10      | AB-PINACA 5-Pentanoic                  | 10        |
| AB-PINACA 5-hydroxypentyl                                  | 10      | AB-FUBINACA                            | 10        |
| AB-PINACA 4-hydroxypentyl                                  | 10,000  | UR-144 5-Pentanoic                     | 5,000     |
| UR-144 5-hydroxypentyl                                     | 10,000  | UR-144 4-hydroxypentyl                 | 10,000    |
| APINACA 5-hydroxypentyl                                    | 10,000  | ADB-PINACA Pentanoic Acid              | 10        |
| ADB-PINACA N-(5-hydroxypentyl)                             | 30      | 5-fluoro AB-PINACA N-(4-hydroxypentyl) | 30        |
| 5-fluoro AB-PINACA   | 25      |  |           |
| UR-144/K4 (25)   |         |  |           |
| UR-144 5-Pentanoic acid                                    | 25      | UR-144 4-hydroxypentyl                 | 10,000    |
| UR-144 5-hydroxypentyl                                     | 5000    | XLR-11 4-hydroxypentyl                 | 2,000     |
| 5-fluoro AB-Pinaca N-(4-hydroxypentyl)                     | 10,000  | ADB-PINAC N-(4-hydroxypentyl)          | >10,000   |
| AB-PINACA 4-hydroxypentyl                                  | >10,000 |  |           |
| QUETIAPINE (QTP 1,000)                                     |         |  |           |
| Quetiapine   | 1,000   | Norquetiapine                          | 10,000    |
| FLUOXETINE (FLX 500)                                       |         |  |           |
| Fluoxetine   | 500     |  |           |
| KRATOM (KRA 300)   |         |  |           |
| Mitragynine  | 300     | 7-hydroxymitragynine                   | >50,000   |
| TILIDINE (TLD 50)  |         |  |           |
| Nortilidine  | 50      | Tilidine                               | 100       |
| ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 2,000)               |         |  |           |
| Alpha-Pyrrolidinovalerophenone                             | 2,000   |  |           |
| ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 1,000)               |         |  |           |
| Alpha-Pyrrolidinovalerophenone                             | 1,000   |  |           |
| ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 500)                 |         |  |           |
| Alpha-Pyrrolidinovalerophenone                             | 500     |  |           |
| ALPHA-PYRROLIDINOVALEROPHENONE (α-PVP 300)                 |         |  |           |
| Alpha-Pyrrolidinovalerophenone                             | 300     |  |           |
| MESCALINE (MES 100)  |         |  |           |
| Mescaline  | 100     |  |           |
| MESCALINE (MES 300)  |         |  |           |
| Mescaline  | 300     |  |           |
| PAPAVERINE (PAP 500)                                       |         |  |           |
| Papaverine   | 500     | Difenunisal                            | 1,000,000 |
| Methortrexate  | 65,000  | Methedrone                             | 500,000   |
| Pragablin  | 500,000 | Phenelzine                             | 8,000     |
| Quinine  | 4,000   |  |           |
| TAPENTADOL (TAP 1,000)                                     |         |  |           |
| 3-((1R,2R)-3-(dimethylamino)-1-ethyl-2-methylpropyl)phenol | 1,000   |  |           |
| CITALOPRAM (CIT 500)                                       |         |  |           |
| Desmethylcitalopram  | 500     |  |           |
| F-KETAMINE (FKET 1,000)                                    |         |  |           |
| 2-(2-fluorophenyl)-2-methylamino-cyclohexanone             | 1,000   |  |           |

| RISPERIDONE (RPD 150)               |         |                               |         |
|-------------------------------------|---------|-------------------------------|---------|
| Risperidone                         | 150     |                               |         |
| SCOPOLAMINE (SCOP 500)              |         |                               |         |
| Scopolamine                         | 500     | Atropine                      | 3,000   |
| N, N-DIMETHYLTRYPTAMINE (NND 1,000) |         |                               |         |
| N, N-Dimethyltryptamine             | 1,000   |                               |         |
| MIRTAZAPINE (MTZ 500)               |         |                               |         |
| N-Desmethylmirtazapine              | 500     | Mirtazapine                   | 500     |
| OLANZAPINE (OZP 1,000)              |         |                               |         |
| Olanzapine                          | 1,000   |                               |         |
| HYDROMORPHONE (HMO 500)             |         |                               |         |
| Hydromorphone                       | 500     | Morphine                      | 200     |
| Codeine                             | 120     | Ethylmorphine                 | 120     |
| Hydrocodone                         | 500     | Morphine<br>3-β-D-Glucuronide | 250     |
| Levorphanol                         | 2,000   | Oxycodone                     | 125,000 |
| Normorphine                         | 125,000 | Norcodeine                    | 31,200  |
| Oxymorphone                         | 125,000 | Nalorphine                    | 50,000  |
| Thebaine                            | 10,000  | Diacetylmorphine (Heroin)     | 250     |
| 6-Monoacetylmorphine                | 120     |                               |         |
| HYDROMORPHONE (HMO 300)             |         |                               |         |
| Hydromorphone                       | 300     | Morphine                      | 120     |
| Codeine                             | 75      | Ethylmorphine                 | 75      |
| Hydrocodone                         | 300     | Morphine<br>3-β-D-Glucuronide | 150     |
| Levorphanol                         | 1,200   | Oxycodone                     | 75,000  |
| Normorphine                         | 75,000  | Norcodeine                    | 18,700  |
| Oxymorphone                         | 75,000  | Nalorphine                    | 30,000  |
| Thebaine                            | 6,000   | Diacetylmorphine (Heroin)     | 150     |
| 6-Monoacetylmorphine                | 75      |                               |         |
| HYDROMORPHONE (HMO 250)             |         |                               |         |
| Hydromorphone                       | 250     | Morphine                      | 100     |
| Codeine                             | 60      | Ethylmorphine                 | 60      |
| Hydrocodone                         | 250     | Morphine<br>3-β-D-Glucuronide | 125     |
| Levorphanol                         | 1,000   | Oxycodone                     | 62,500  |
| Normorphine                         | 62,500  | Norcodeine                    | 15,600  |
| Oxymorphone                         | 62,500  | Nalorphine                    | 25,000  |
| Thebaine                            | 5,000   | Diacetylmorphine (Heroin)     | 125     |
| 6-Monoacetylmorphine                | 60      |                               |         |

#### Effect of Urinary Specific Gravity

Fifteen (15) urine samples of normal, high and low specific gravity ranges (1.005-1.045) were spiked with drugs at 50% below and 50% above cut-off levels respectively. The Multi-Drug Rapid Test was tested in duplicate using fifteen drug-free urine and spiked urine samples. The results demonstrate that varying ranges of urinary specific gravity do not affect the test results.

#### Effect of Urinary pH

The pH of an aliquoted negative urine pool was adjusted to a pH range of 5 to 9 in 1 pH unit increments and spiked with drugs at 50% below and 50% above cut-off levels. The spiked, pH-adjusted urine was tested with the Multi-Drug Rapid Test. The results demonstrate that varying ranges of pH do not interfere with the performance of the test.

#### Cross-Reactivity

A study was conducted to determine the cross-reactivity of the test with compounds in either drug-free urine or drug positive urine containing above related calibrator substances. The following compounds show no cross-reactivity when tested with the Multi-Drug Rapid Test at a concentration of 100 µg/mL.

#### Non Cross-Reacting Compounds

|                      |                     |                 |                |
|----------------------|---------------------|-----------------|----------------|
| Acetophenetidin      | Cortisone           | Zomepirac       | Quinidine      |
| N-Acetylprocainamide | Creatinine          | Ketoprofen      | Quinine        |
| Acetylsalicylic acid | Deoxycorticosterone | Labetalol       | Salicylic acid |
| Aminopyrine          | Dextromethorphan    | Loperamide      | Serotonin      |
| Amoxicillin          | Diclofenac          | Meprobamate     | Sulfamethazine |
| Ampicillin           | Diffunisal          | Isosuprine      | Sulindac       |
| L-Ascorbic acid      | Digoxin             | d,l-Propranolol | Tetracycline   |

|                      |                        |                |                      |
|----------------------|------------------------|----------------|----------------------|
| Apomorphine          | Diphenhydramine        | Nalidixic acid | Tetrahydrocortisone, |
| Aspartame            | Ethyl-p-aminobenzoate  | Naproxen       | 3-acetate            |
| Atropine             | β-Estradiol            | Niacinamide    | Tetrahydrocortisone  |
| Benzilic acid        | Estrone-3-sulfate      | Nifedipine     | Tetrahydrozoline     |
| Benzoic acid         | Erythromycin           | Norethindrone  | Thiamine             |
| Bilirubin            | Fenoprofen             | Noscapine      | Thioridazine         |
| d,l-Brompheniramine  | Furosemide             | d,l-Octopamine | d,l-Tyrosine         |
| Cannabidiol          | Gentisic acid          | Oxalic acid    | Tolbutamide          |
| Chloral hydrate      | Hemoglobin             | Oxolinic acid  | Triamterene          |
| Chloramphenicol      | Hydralazine            | Oxymetazoline  | Trifluoperazine      |
| Chlorothiazide       | Hydrochlorothiazide    | Penicillin-G   | Trimethoprim         |
| d,l-Chlorpheniramine | Hydrocortisone         | Perphenazine   | d,l-Tryptophan       |
| Chlorpromazine       | o-Hydroxyhippuric acid | Phenelzine     | Uric acid            |
| Cholesterol          | 3-Hydroxytyramine      | Prednisone     | Verapamil            |
| Clonidine            | d,l-Isoproterenol      |                |                      |

#### 【ALCOHOL PERFORMANCE CHARACTERISTICS】

The detection limit on the **Urine Alcohol Rapid Test** is from 0.02% to 0.30% for approximate relative blood alcohol level. The cutoff level of the **Urine Alcohol Rapid Test** can vary based on local regulations and laws. Test results can be compared to reference levels with color chart on the foil package.

#### 【ALCOHOL ASSAY SPECIFICITY】

The **Urine Alcohol Rapid Test** will react with methyl, ethyl and allyl alcohols.

#### 【ALCOHOL INTERFERING SUBSTANCES】

The following substances may interfere with the **Urine Alcohol Rapid Test** when using samples other than urine. The named substances do not normally appear in sufficient quantity in urine to interfere with the test.

#### A. Agents which enhance color development

- Peroxidases
- Strong oxidizers

#### B. Agents which inhibit color development

- Reducing agents: Ascorbic acid, Tannic acid, Pyrogallol, Mercaptans and tosylates, Oxalic acid, Uric Acid
- Bilirubin
- L-dopa
- L-methyl dopa
- Methampyrone

#### 【BIBLIOGRAPHY】

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#### Index of Symbols

|  |   |  |                                   |  |                   |
|--|---|--|-----------------------------------|--|-------------------|
|  | Consult instructions for use or consult electronic instructions for use |  | Contains sufficient for <n> tests |  | Temperature limit |
|  | In vitro diagnostic medical device                                      |  | Batch code                        |  | Catalogue number  |
|  | Authorized representative in the European Community/European Union      |  | Use-by date                       |  | Do not re-use     |
|  | Do not use if package is damaged and consult instructions for use       |  | Manufacturer                      |  | Caution           |

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