







| KETAMINE (KET1, 000)  |         |                                   |         |
|---|---------|-----------------------------------|---------|
| Ketamine  | 1,000   | Benzphetamine                     | 25,000  |
| Dextromethorphan  | 1,500   | (+) Chlorpheniramine              | 25,000  |
| Methoxyphenamine  | 12,500  | Clonidine                         | 100,000 |
| d-Norpropoxyphene   | 12,500  | EDDP                              | 50,000  |
| Promazine   | 25,000  | 4-Hydroxyphencyclidine            | 50,000  |
| Promethazine  | 25,000  | Levorphanol                       | 50,000  |
| Pentazocine   | 25,000  | MDE                               | 50,000  |
| Phencyclidine   | 12,500  | Meperidine                        | 25,000  |
| Tetrahydrozoline  | 400     | d-Methamphetamine                 | 25,000  |
| Mephentermine   | 25,000  | l-Methamphetamine                 | 50,000  |
| (1R, 2S) - (-)-Ephedrine                                    | 100,000 | 3,4-Methylenedioxymethamphetamine | 100,000 |
| Disopyramide  | 12,500  | Thioridazine                      | 50,000  |
| OXYCODONE (OXY100)  |         |                                   |         |
| Oxycodone   | 100     | Hydromorphone                     | 50,000  |
| Oxymorphone   | 200     | Naloxone                          | 25,000  |
| Levorphanol   | 50,000  | Naltrexone                        | 25,000  |
| Hydrocodone   | 6,250   |                                   |         |
| COTININE (COT)  |         |                                   |         |
| (-)-Cotinine  | 200     | (-)-Nicotine                      | 3,000   |
| 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP300) |         |                                   |         |
| 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)    |         |                                   | 300     |
| 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP100) |         |                                   |         |
| 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)    |         |                                   | 100     |
| FENTANYL (FYL20)  |         |                                   |         |
| Norfentanyl   | 20      | Noscapine                         | 25,000  |
| Perphenazine  | 5,000   | Chlorpromazine                    | 25,000  |
| Quinacrine  | 25,000  |                                   |         |

#### Effect of Urinary Specific Gravity

Fifteen (15) urine samples of normal, high, and low specific gravity ranges (1.000-1.037) were spiked with drugs at 50% below and 50% above cut-off levels respectively. The Multi-line Rapid Test Cassette 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-line Rapid Test Cassette. 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, Amphetamine, Barbiturates, Benzodiazepines, Buprenorphine, Cocaine, Marijuana, Methadone, Methamphetamine, Methylenedioxymethamphetamine, Morphine, Tramadol, Methaqualone, Ketamine, Phencyclidine, Propoxyphene, Tricyclic Antidepressants, Oxycodone, Cotinine, 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine or Fentanyl. The following compounds show no cross-reactivity when tested with the Multi-line Rapid Test Cassette at a concentration of 100 µg/mL.

#### Non Cross-Reacting Compounds










|                      |                        |                  |                      |
|----------------------|------------------------|------------------|----------------------|
| Acetophenetidin      | I-Cotinine             | Ketamine         | d-Pseudoephedrine    |
| N-Acetylprocainamide | Creatinine             | Ketoprofen       | Quinidine            |
| Acetylsalicylic acid | Deoxycorticosterone    | Labetalol        | Quinine              |
| Aminopyrine          | Dextromethorphan       | Loperamide       | Salicylic acid       |
| Amoxicillin          | Diclofenac             | Meprobamate      | Serotonin            |
| Ampicillin           | Diflunisal             | Methoxyphenamine | Sulfamethazine       |
| l-Ascorbic acid      | Digoxin                | Methylphenidate  | Sulindac             |
| Apomorphine          | Diphenhydramine        | Nalidixic acid   | Tetracycline         |
| Aspartame            | Ethyl-p-aminobenzoate  | Naproxen         | Tetrahydrocortisone, |
| Atropine             | β-Estradiol            | Niacinamide      | 3-acetate            |
| Benzilic acid        | Estrone-3-sulfate      | Nifedipine       | Tetrahydrocortisone  |
| Benzoic acid         | Erythromycin           | Norethindrone    | Tetrahydrozoline     |
| Bilirubin            | Fenoprofen             | Noscapine        | Thiamine             |
| d,l-Brompheniramine  | Furosemide             | d,l-Octopamine   | Thioridazine         |
| Caffeine             | Gentisic acid          | Oxalic acid      | d,l-Tyrosine         |
| Cannabidiol          | Hemoglobin             | Oxolinic acid    | Tolbutamide          |
| Chloral hydrate      | Hydralazine            | Oxymetazoline    | Triamterene          |
| Chloramphenicol      | Hydrochlorothiazide    | Papaverine       | Trifluoperazine      |
| Chlorothiazide       | Hydrocortisone         | Penicillin-G     | Trimethoprim         |
| d,l-Chlorpheniramine | o-Hydroxyhippuric acid | Perphenazine     | d,l-Tryptophan       |
| Chlorpromazine       | 3-Hydroxytyramine      | Phenelzine       | Uric acid            |
| Cholesterol          | d,l-Isoproterenol      | Prednisone       | Verapamil            |
| Clonidine            | Isoxsuprine            | d,l-Propranolol  | Zomepirac            |
| Cortisone            |                        |                  |                      |

#### 【BIBLIOGRAPHY】

- Hawks RL, CN Chiang. *Urine Testing for Drugs of Abuse*. National Institute for Drug Abuse (NIDA), Research Monograph 73, 1986.
- Tietz NW. *Textbook of Clinical Chemistry*. W.B. Saunders Company. 1986; 1735.
- Stewart DJ, Inaba T, Lucassen M, Kalow W. *Clin. Pharmacol. Ther.* April 1979; 25 ed: 464, 264-8.

- Ambre J. *J. Anal. Toxicol.* 1985; 9:241.
- Winger, Gail, *A Handbook of Drug and Alcohol Abuse*, Third Edition, Oxford Press, 1992, page 146.
- Robert DeCresce. *Drug Testing in the workplace*, 1989 page 114.
- Glass, IB. *The International Handbook of Addiction Behavior*. Routledge Publishing, New York, NY. 1991; 216
- B. Cody, J.T., "Specimen Adulteration in drug urinalysis. *Forensic Sci. Rev.*, 1990, 2:63.
- C. Tsai, S.C. et.al., *J. Anal. Toxicol.* 1998; 22 (6): 474
- Baselt RC. *Disposition of Toxic Drugs and Chemicals in Man*. 6th Ed. Biomedical Publ., Foster City, CA 2002.

#### Index of Symbols

|   |   |   |               |   |              |
|---|---|---|---------------|---|--------------|
|  | Consult instructions for use            |  | Tests per kit |  | Manufacturer |
|  | For <i>in vitro</i> diagnostic use only |  | Use by        |  | Do not reuse |
|  | Store between 2-30°C                    |  | Lot Number    |  | Catalog #    |



Manufacturer

#### SureScreen Diagnostics Ltd

1 Prime Parkway  
Prime Enterprise Park  
Derby, DE1 3QB  
United Kingdom



Number:  
Effective date: