

**FORENSIC TOXICOLOGY LABORATORY  
OFFICE OF CHIEF MEDICAL EXAMINER  
CITY OF NEW YORK**

**QUALITY CONTROL SUMMARY**

| ANALYTICAL METHOD   | Control  | Expected Control Result         | Control Type |          |
|---------------------|--|---------------------------------|--------------|----------|
| <b>EI</b>           | ELISA Urine Negative                                 | Negative                        | Internal     |          |
|                     | ELISA Urine Positive                                 | Positive                        | Internal     |          |
|                     | ELISA Blood Negative                                 | Negative                        | Internal     |          |
|                     | ELISA Blood Positive                                 | Positive                        | Internal     |          |
|                     | ELISA Serum Negative                                 | Negative                        | Internal     |          |
|                     | ELISA Serum Positive                                 | Positive                        | Internal     |          |
|                     | ELISA Vitreous Negative                              | Negative                        | Internal     |          |
|                     | ELISA Vitreous Positive                              | Positive                        | Internal     |          |
|                     | <b>COLOR TESTS</b>                                   | Acetaminophen Urine Negative    | Negative     | Internal |
|                     |  | Acetaminophen Urine Positive    | Positive     | Internal |
|                     |  | Cyanide Blood Negative          | Negative     | Internal |
|                     |  | Cyanide Blood Positive 0.2 mg/L | Positive     | Internal |
|                     | Cyanide Blood Positive 0.4 mg/L                      | Positive                        | Internal     |          |
|                     | Ethchlorvynol Negative (blood, urine)                | Negative                        | Internal     |          |
|                     | Ethchlorvynol Positive (blood, urine)                | Positive                        | Internal     |          |
|                     | Halogenated Hydrocarbons Negative (blood, urine)     | Negative                        | Internal     |          |
|                     | Halogenated Hydrocarbons Positive (blood, urine)     | Positive                        | Internal     |          |
|                     | Heavy Metals Negative (blood, urine, gastric, liver) | Negative                        | Internal     |          |
|                     | Heavy Metals Positive (blood, urine, gastric, liver) | Positive                        | Internal     |          |
|                     | Salicylate Urine Negative                            | Negative                        | Internal     |          |
|                     | Salicylate Urine Positive                            | Positive                        | Internal     |          |
|                     | Carbon Monoxide - Level 1 (Conway)                   | Positive                        | External     |          |
|                     | Carbon Monoxide - Level 2 (Conway)                   | Negative                        | External     |          |
|                     | Carbon Monoxide - Level 3 (Conway)                   | Positive                        | External     |          |
| <b>CO-Oximeter</b>  | Carbon Monoxide - Level 1                            | Reference Values                | External     |          |
|                     | Carbon monoxide - Level 2                            | Reference Values                | External     |          |
|                     | Carbon Monoxide - Level 3                            | Reference Values                | External     |          |
| <b>GC Headspace</b> | Ethanol Blood 0.01g%                                 | Detected                        | Internal     |          |
|                     | Ethanol Blood  | 0.150 g%                        | Internal     |          |
|                     | Ethanol, methanol, acetone, 2-propanol Blood (VEC)   | Reference Values                | External     |          |
|                     | Ethanol, methanol, acetone, 2-propanol Brain         | 0.08 g%                         | Internal     |          |
|                     | Formaldehyde Blood                                   | Detected                        | Internal     |          |

|              |   |                  |          |
|--------------|---|------------------|----------|
| <b>GC</b>    | GC Screen 0.2 mg/L - Blood (QAS)  | Detected         | External |
|              |   |                  |          |
|              | GC Screen 0.2 mg/L - Urine  | Detected         | Internal |
|              |   |                  |          |
|              | GC Quantitative<br>(blood, urine, brain, liver, gastric)  | 0.025 mg/L       | Internal |
|              | GC Quantitative<br>(blood, urine, brain, liver, gastric)  | 0.5 mg/L         | Internal |
|              | GC Quantitative<br>(blood, urine, brain, liver, gastric)  | 1.0 mg/L         | Internal |
|              |   |                  |          |
|              | Cyanide<br>(blood, gastric)   | 0.6 mg/L         | Internal |
|              |   |                  |          |
|              | Cyanide<br>(blood, gastric)   | 1.2 mg/L         | Internal |
|              |   |                  |          |
| <b>GC/MS</b> | GC/MS Screen 0.2 mg/L (QAS)*  | Detected         | External |
|              |   |                  |          |
|              | GC/MS Hydrolysis - Morphine-3-glucuronide   | 80 ng/mL         | Internal |
|              |   |                  |          |
|              | GC/MS Cocaine, Benzoyllecgonine, Cocaethylene, Codeine, Morphine - Blood (QAS)  | Reference values | External |
|              |   |                  |          |
|              | GC/MS 6-MAM, Cocaine, Cocaethylene, Benzoyllecgonine, Codeine, Morphine - Blood<br>(blood, bile, brain, gastric, urine, liver)                | 0.01 mg/L        | Internal |
|              |   |                  |          |
|              | GC/MS 6-MAM, Cocaine, Cocaethylene, Benzoyllecgonine, Codeine, Morphine - Blood<br>(blood, bile, brain, gastric, urine, liver)                | 0.025 mg/L       | Internal |
|              |   |                  |          |
|              | GC/MS 6-MAM, Cocaine, Cocaethylene, Benzoyllecgonine, Codeine, Morphine - Blood<br>(blood, bile, brain, gastric, urine, liver)                | 0.2 mg/L         | Internal |
|              |   |                  |          |
|              | GC/MS Screen Amphetamine-1 Amphetamine, Methamphetamine, MDA, MDMA, PPA   | 0.2 mg/L         | Internal |
|              | GC/MS Screen Amphetamine-2 Dexfenfluramine, Ephedrine, MDEA, Phentermine, PMA, Pseudoephedrine<br>(blood, bile, brain, gastric, urine, liver) |                  |          |
|              |   |                  |          |
|              | GC/MS Amphetamine-1 Amphetamine, Methamphetamine, MDA, MDMA, PPA  | 0.5 mg/L         | Internal |
|              | GC/MS Amphetamine-2 Dexfenfluramine, Ephedrine, MDEA, Phentermine, PMA, Pseudoephedrine<br>(blood, bile, brain, gastric, urine, liver)        |                  |          |
|              |   |                  |          |
|              | GC/MS Amphetamine-1 Amphetamine, Methamphetamine, MDA, MDMA, PPA  | 1.0 mg/L         | Internal |
|              | GC/MS Amphetamine-2 Dexfenfluramine, Ephedrine, MDEA, Phentermine, PMA, Pseudoephedrine<br>(blood, bile, brain, gastric, urine, liver)        |                  |          |
|              |   |                  |          |
|              | GC/MS Carisoprodol, Meprobamate<br>(blood, brain, gastric, urine, liver)  | 0.5 mg/L         | Internal |
|              |   |                  |          |
|              | GC/MS Carisoprodol, Meprobamate<br>(blood, brain, gastric, urine, liver)  | 2.5 mg/L         | Internal |
|              |   |                  |          |
|              | GC/MS Ethylene glycol, Propylene glycol<br>(blood, gastric, urine)  | 600 mg/L         | Internal |
|              |   |                  |          |
|              | GC/MS Ethylene glycol, Propylene glycol<br>(blood, gastric, urine)  | 1200 mg/L        | Internal |
|              |   |                  |          |
|              | GC/MS Fentanyl<br>(blood, bile, brain, gastric, urine, liver)   | 2 ng/mL          | Internal |
|              |   |                  |          |
|              | GC/MS Fentanyl<br>(blood, bile, brain, gastric, urine, liver)   | 10 ng/mL         | Internal |
|              |   |                  |          |

|              |  |            |          |
|--------------|--|------------|----------|
| <b>GC/MS</b> | GHB  | 7.5 mg/L   | Internal |
|              | (blood, urine )  |            |          |
|              | GHB  | 50.0 mg/L  | Internal |
|              | (blood, urine )  |            |          |
|              | GC/MS Benzodiazepines - 7-Aminoclonazepam, 7-Aminoflunitrazepam, Alphahydroxyalprazolam, Alphahydroxytriazolam, Alprazolam, Clonazepam, Diazepam, Lorazepam, Nordiazepam, Oxazepam, Temazepam, Triazolam | 200 ng/mL  | Internal |
|              | (blood, urine )  |            |          |
|              |  |            |          |
|              | GC/MS Benzodiazepines - Oxazepam glucuronide   | 200 ng/mL  | Internal |
|              | GC/MS Benzodiazepines - 7-Aminoclonazepam, 7-Aminoflunitrazepam, Alphahydroxyalprazolam, Alphahydroxytriazolam, Alprazolam, Clonazepam, Diazepam, Lorazepam, Nordiazepam, Oxazepam, Temazepam, Triazolam | 50 ng/mL   | Internal |
|              | (blood, bile, brain, gastric, urine, liver )   |            |          |
|              |  |            |          |
|              | GC/MS Benzodiazepines - 7-Aminoclonazepam, 7-Aminoflunitrazepam, Alphahydroxyalprazolam, Alphahydroxytriazolam, Alprazolam, Clonazepam, Diazepam, Lorazepam, Nordiazepam, Oxazepam, Temazepam, Triazolam | 200 ng/mL  | Internal |
|              | (blood, bile, brain, gastric, urine, liver )   |            |          |
|              |  |            |          |
|              | GC/MS Benzodiazepines - 7-Aminoclonazepam, 7-Aminoflunitrazepam, Alphahydroxyalprazolam, Alphahydroxytriazolam, Alprazolam, Clonazepam, Diazepam, Lorazepam, Nordiazepam, Oxazepam, Temazepam, Triazolam | 750 ng/mL  | Internal |
|              | (blood, bile, brain, gastric, urine, liver )   |            |          |
|              |  |            |          |
| <b>HPLC</b>  | HPLC Barbiturate - Amobarbital, Butalbital, Butabarbital, Phenobarbital, Pentobarbital, Secobarbital   | 5.0 mg/L   | Internal |
|              | Carbamazepine, Phenytoin<br>(blood, brain, gastric, urine, liver)  |            |          |
|              | HPLC Barbiturate - Amobarbital, Butalbital, Butabarbital, Phenobarbital, Pentobarbital, Secobarbital   | 15.0 mg/L  | Internal |
|              | Carbamazepine, Phenytoin<br>(blood, brain, gastric, urine, liver)  |            |          |
|              | HPLC Acetaminophen, Salicylate<br>(blood, brain, gastric, urine, liver)  | 25.0 mg/L  | Internal |
|              | HPLC Acetaminophen, Salicylate<br>(blood, brain, gastric, urine, liver)  | 100.0 mg/L | Internal |
|              | HPLC Caffeine, Theophylline<br>(blood, brain, gastric, urine, liver)   | 10.0 mg/L  | Internal |
|              | HPLC Caffeine, Theophylline<br>(blood, brain, gastric, urine, liver)   | 40.0 mg/L  | Internal |
|              | HPLC Ibuprofen, Naproxen, Warfarin<br>(blood, brain, gastric, urine, liver)  | 7.5 mg/L   | Internal |
|              | HPLC Ibuprofen, Naproxen, Warfarin<br>(blood, brain, gastric, urine, liver)  | 15.0 mg/L  | Internal |
| <b>LC/MS</b> | LC/MS 6-MAM, Cocaine, Cocaethylene, Benzoyllecgonine, Codeine, Morphine, Hydromorphone, Hydrocodone, Oxycodone, Oxycodone  | 0.01 mg/L  | Internal |
|              | (blood, bile, brain, gastric, urine, liver)  |            |          |
|              | LC/MS 6-MAM, Cocaine, Cocaethylene, Benzoyllecgonine, Codeine, Morphine, Hydromorphone, Hydrocodone, Oxycodone, Oxycodone  | 0.025 mg/L | Internal |
|              | (blood, bile, brain, gastric, urine, liver)  |            |          |

|                  |   |                  |          |
|------------------|---|------------------|----------|
|                  | LC/MS 6-MAM, Cocaine, Cocaethylene, Benzoyllecgonine, Codeine, Morphine, Hydromorphone,<br>Hydrocodone, Oxymorphone, Oxycodone<br>(blood, bile, brain, gastric, urine, liver) | 0.2 mg/L         | Internal |
|                  | LC/MS Cocaine, Cocaethylene, Benzoyllecgonine, Codeine, Morphine, Hydromorphone,<br>Hydrocodone, Oxymorphone, Oxycodone - Blood (QAS)   | Reference values | External |
|                  | LC/MS Clenbuterol<br>(blood, urine, brain, gastric, liver)  | 0.2 ng/mL        | Internal |
|                  | LC/MS Clenbuterol<br>(blood, urine, brain, gastric, liver)  | 2.0 ng/mL        | Internal |
| <b>VITREOUS</b>  | Vitros DT I (Ortho)   | Reference values | External |
| <b>CHEMISTRY</b> | Vitros DT II (Ortho)  | Reference values | External |

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