

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

ROUTINELY TESTED ANALYTES

Listed below are drugs that are routinely included in comprehensive toxicology testing and subsequently confirmed and quantitated. (Applicable analytical methodologies are in parentheses.)

VOLATILES AND GASES

Ethanol (HS/GC)
Acetone (HS/GC)
2-propanol (HS/GC)
Methanol (HS/GC)
Carbon monoxide (SP, CT)

INCLUDED WITH POSITIVE ELISA FOR:

1. **Opiates:** Morphine, codeine, 6-MAM, hydrocodone, hydromorphone, oxycodone, oxymorphone (LC/MS)
2. **Benzoyllecgonine:** cocaine, benzoyllecgonine (LC/MS)
3. **Barbiturates:** pentobarbital, phenobarbital, secobarbital, amobarbital, butabarbital, butalbital, phenytoin, carbamazepine (HPLC)
4. **Benzodiazepines:** diazepam, nordiazepam, oxazepam, temazepam, alprazolam, alphahydroxyalprazolam, triazolam, clonazepam, 7-aminoclonazepam, lorazepam, 7-amino flunitrazepam (GC/MS)
5. **Amphetamines:** amphetamine, methamphetamine, MDA, MDMA, MDEA, ephedrine, pseudoephedrine, phenylpropanolamine, paramethoxyamphetamine. (GC/MS)
6. **Oxycodone:** see drugs in Opiates above plus acetaminophen (LC/MS, HPLC)
7. **Methadone:** methadone (and any other drugs indentified from the same extraction.
8. **Cannabinoids** (as needed): unconfirmed screening test

BASED ON HISTORY:

Vitreous chemistry: glucose, lithium

Carbon monoxide

In addition to the above, the following drugs are routinely included in comprehensive toxicology testing with subsequent confirmation and quantitation. (Applicable analytical methodologies are in parentheses).

BASIC DRUGS

Alprazolam (EI, GC/MS)
Amitriptyline/nortriptyline (GC, GC/MS)
Amphetamine/methamphetamine (EI, GC/MS)
Benzoyllecgonine (EI, GC/MS, LC/MS)
Bupropion (GC, GC/MS)
Chlordiazepoxide (EI, GC, GC/MS)
Chlorpheniramine (GC, GC/MS)
Caffeine (GC, GC/MS, HPLC)
Citalopram (GC, GC/MS)
Cocaine (EI, GC, GC/MS, LC/MS)
Codeine (EI, GC, GC/MS, LC/MS)
Diazepam/nordiazepam (EI, GC, GC/MS)
Diltiazem (GC, GC/MS)
Diphenhydramine (GC, GC/MS)
Doxepin/nordoxepin (GC, GC/MS)
Doxylamine (GC, GC/MS)
Dextromethorphan (GC, GC/MS)
Ethylbenzoyllecgonine (GC, GC/MS, LC/MS)
Fentanyl (GC, GC/MS)
Flurazepam (GC, GC/MS)
Fluoxetine/norfluoxetine (GC, GC/MS)
Haloperidol (GC, GC/MS)
Imipramine/desipramine (GC, GC/MS)
Ketamine (GC, GC/MS)
Levamisole (GC, GC/MS)
Lidocaine (GC, GC/MS)
Lorazepam (EI, GC/MS)
Meperidine/normeperidine (GC, GC/MS)
Methadone/methadone metabolite (GC, GC/MS)
Morphine (EI, GC/MS, LC/MS)
Nicotine (GC, GC/MS)
Oxazepam (EI, GC/MS)
Oxycodone (GC, GC/MS, LC/MS)
Phencyclidine (GC, GC/MS)
Propoxyphene/norpropoxyphene amide (GC, GC/MS)
Quetiapine (GC, GC/MS)
Sertraline/norsertaline (GC, GC/MS)
Temazepam (EI, GC/MS)
Trazodone (GC, GC/MS)
Verapamil/norverapamil (GC, GC/MS)
Zolpidem (GC, GC/MS)

Methodology abbreviations:

Color test	CT
Enzyme immunoassay	EI
Gas chromatography	GC
Gas chromatography mass spectrometry	GC/MS
Head space gas chromatography	HS/GC
High performance liquid chromatography	HPLC
High performance liquid chromatography mass spectrometry	LC/MS
Spectrophotometry	SP

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AGENTS DETECTED BY METHODOLOGIES CURRENTLY AVAILABLE IN THE FORENSIC TOXICOLOGY LABORATORY*

VOLATILES

Acetone, ethanol, isopropanol, methanol

ACIDIC AND NEUTRAL DRUGS

Acetaminophen, barbiturates (amobarbital, butabarbital, butalbital, pentobarbital, phenobarbital, secobarbital, thiamylal, thiopental), caffeine, carbamazepine, methaqualone, phenytoin, salicylates

BASIC DRUGS

3,4-methylenedioxyamphetamine (MDA), 3,4-methylenedioxyethamphetamine (MDEA), 3,4-methylenedioxymethamphetamine (MDMA), 6-monoacetylmorphine, acetylcodeine, alphahydroxyalprazolam, alphahydroxytriazolam, alprazolam, amitriptyline, amoxapine, amphetamine, benzocaine, benzoylecgonine, benztropine, brompheniramine, buphedrone, bupivacaine, bupropion and metabolites, buspirone, caffeine, caramiphen, carbinoxamine, carisoprodol, cetirizine, chlorcyclizine, chlordiazepoxide, chloroquine, chlorpheniramine, chlorpromazine, chlorprothixene, cinnamoylcocaine, citalopram, clindamycin, clomipramine, clonazepam, clozapine, cocaine, codeine, colchicine, cotinine, cyclizine, cyclobenzaprine, cyproheptadine, desalkylflurazepam, desipramine, dextromethorphan, dextrorphan, diacetylmorphine, diazepam, dicyclomine, diltiazem, diphenhydramine, disopyramide, dothiepin, doxepin, doxylamine, ephedrine, ethylbenzoylecgonine, etomidate, fenfluramine, fentanyl, flecainide, flunitrazepam, fluoxetine, flurazepam, fluvoxamine, gamma-hydroxybutyric acid (GHB), haloperidol, hydrocodone, hydromorphone, hydroxyzine, imipramine, ketamine, l-acetylmethadol (LAAM), laudanosine, levorphanol, lidocaine, loratadine, lorazepam, loxapine, maprotiline, meclizine, memantine, meperidine, mephedrone, mepivacaine, mesoridazine, methadone, methamphetamine, methaqualone, methorphan, methylenedioxypropylvalerone (MDPV), methylone, methylphenidate, metronidazole, metoclopramide, metoprolol, midazolam, mirtazapine, molindone, monoethylglycinexylidide (MEGX), morphine, nevirapine, nicotine, noracetylmethadol (norLAAM), norchlorcyclizine, norcocaine, norcyclobenzaprine, nordiazepam, nordiphenhydramine, nordoxepin, norfluoxetine, norhydroxyzine, norketamine, normeperidine, norpropoxyphene, norsertraline, nortriptyline, norverapamil, o-desalkylvenlafaxine, olanzapine, orphenadrine, oxazepam, oxycodone, papaverine, paramethoxyamphetamine (PMA), paroxetine, pentazocine, phencyclidine, pheniramine, phentermine, phenylpropanolamine, phenyltoloxamine, pramoxine, procainamide, procaine, prochlorperazine, procyclidine, promazine, promethazine, propoxyphene, propranolol, protriptyline, pseudoephedrine, pyrimethamine, pyrilamine, quetiapine, quinine (quinidine), scopolamine, sertraline, strychnine, sulfonidazine, temazepam, thiethylperazine, thioridazine, ticlopidine, tramadol, tranlycypromine,

trazodone, triazolam, trifluoperazine, trihexyphenidil, trimethobenzamide, trimethoxycinnamoylcocaine (TMCC), trimethoxycocaine (TMC), trimipramine, tripeleennamine, triprolidine, venlafaxine, verapamil, zolpidem, zonisamide.

VITREOUS HUMOR CHEMISTRIES

Glucose, sodium, potassium, chloride, urea nitrogen, creatinine.

* List not all inclusive

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