



MEDICAL EXAMINER’S OFFICE
FORENSIC TOXICOLOGY LABORATORY
ONONDAGA COUNTY HEALTH DEPARTMENT
CENTER FOR FORENSIC SCIENCES

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Forensic Toxicology Scope of Testing and Detection Limits

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Qualitative analyses

Volatile Screen by GC/FID

Analyte	Reporting limit	Limit of detection
Acetone	10 mg%	2.5 mg%
Ethanol	0.01 g%	0.0025 g%
Isopropanol	10 mg%	2.5 mg%
Methanol	10 mg%	2.5 mg%

Carbon Monoxide by Microdiffusion

Analyte	Approximate Limit of Detection
Carbon monoxide	15% carboxyhemoglobin

Carbon Monoxide by CO-Oximeter

Analyte	Reporting limit
Carbon monoxide	10% carboxyhemoglobin

Ethylene Glycol by GC/MS

Analyte	Reporting limit
Ethylene glycol	50 mg/L (5 mg%)

ELISA Buprenorphine by IA for Blood/Urine

Analyte/Class	Calibrant	Cut-Off Concentration (ng/mL)	Detects
Buprenorphine/metabolite	buprenorphine	1	buprenorphine, norbuprenorphine



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ELISA by IA for Blood

Analyte/Class	Calibrant	Blood Cut-Off Concentration (ng/mL)	Detects
Amphetamines Class	amphetamine	10	amphetamine, methylenedioxyamphetamine (MDA), para-methoxyamphetamine
Barbiturates	secobarbital	100	allobarbital, aprobarbital, butalbital, butabarbital, secobarbital, talbutal
Benzodiazepines	lorazepam	25	alprazolam, 7-aminoclonazepam, bromazepam, chlordiazepoxide, clobazam, clonazepam, clorazepate, N-desalkylflurazepam, N-desmethylflunitrazepam, diazepam, estazolam, etizolam, flubromazepam, flubromazolam, flurazepam, flunitrazepam, alpha-hydroxyalprazolam, 2-hydroxyethylflurazepam, hydroxyl-triazolam, lorazepam, lormetazepam, medazepam, midazolam, nimetazepam, nitrazepam, nordiazepam, oxazepam, prazepam, temazepam, triazepam
Cannabinoids	delta-9 carboxy-THC	10	delta-9 carboxy-THC
Cocaine/metabolite	benzoylecgonine	25	benzoylecgonine, cocaethylene, cocaine, hydroxybenzoylecgonine
Fentanyl	fentanyl	1	fentanyl, acetylfentanyl, acrylfentanyl, butyryl fentanyl, fluoroisobutyryl fentanyl, furanyl fentanyl, isobutyryl fentanyl, para/ortho/meta-fluorobutyryl fentanyl, ortho/meta-fluorofentanyl, methoxyacetyl fentanyl, 4-methoxy-butyryl fentanyl, para-chloroisobutyryl fentanyl, valeryl fentanyl
Methadone	methadone	25	methadone
Methamphetamine	methamphetamine	10	methamphetamine, methylenedioxymethamphetamine (MDMA), 3,4-methylenedioxy-N-ethylamphetamine (MDEA)
Opiates	morphine	10	6-acetylmorphine, codeine, hydrocodone, hydromorphone, morphine, morphine 3-glucuronide
Oxycodone/oxymorphone	oxycodone	12.5	oxycodone, oxymorphone
Phencyclidine	phencyclidine	5	phencyclidine

Note: Dextromethorphan/metabolites may exhibit cross-reactivity for the ELISA PCP immunoassay.



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ELISA by IA for Urine

DRUG/CLASS	Calibrant	Urine Cut-Off Concentration (ng/mL)	Detects
Amphetamines Class	amphetamine	500	amphetamine, methylenedioxyamphetamine (MDA), para-methoxyamphetamine
Barbiturates	secobarbital	200	allobarbital, aprobarbital, secobarbital, talbutal
Benzodiazepines	lorazepam	250	alprazolam, 7-aminoclonazepam, bromazepam, clobazam, clonazepam, clorazepate, N-desalkylflurazepam, N-desmethylflunitrazepam, diazepam, estazolam, etizolam, flubromazepam, flubromazolam, flurazepam, flunitrazepam, alpha-hydroxyalprazolam, 2-hydroxyethylflurazepam, hydroxyl-triazolam, lorazepam, lormetazepam, medazepam, midazolam, nimetazepam, nitrazepam, nordiazepam, oxazepam, prazepam, temazepam, triazepam
Cannabinoids	delta-9 carboxy-THC	50	delta-9 carboxy-THC
Cocaine/metabolite	benzoylecgonine	150	cocaine, benzoylecgonine, cocaethylene, hydroxybenzoylecgonine
Fentanyl	fentanyl	1	fentanyl, acetylfentanyl, acrylfentanyl, butyryl fentanyl, fluoroisobutyryl fentanyl, furanyl fentanyl, isobutyryl fentanyl, para/ortho/meta-fluorobutyryl fentanyl, ortho/meta-fluorofentanyl methoxyacetyl fentanyl, 4-methoxy-butyryl fentanyl, para-chloroisobutyryl fentanyl, valeryl fentanyl
Methadone	methadone	300	methadone
Methamphetamine	methamphetamine	500	methamphetamine, methylenedioxymethamphetamine (MDMA), 3,4-methylenedioxy-N-ethylamphetamine (MDEA)
Opiates	morphine	300	6-acetylmorphine, 6-acetylcodeine, codeine, desomorphine, dihydrocodeine, ethylmorphine, hydrocodone, hydromorphone, morphine, morphine 3-glucuronide
Oxycodone	oxycodone	300	oxycodone, oxymorphone
Phencyclidine	phencyclidine	25	phencyclidine

Note: Dextromethorphan/metabolites may exhibit cross-reactivity for the ELISA PCP immunoassay.



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Gamma Hydroxybutyrate (GHB) by GC/MS

Analyte	Reporting limit in postmortem urine	Reporting limit in ante-mortem urine
Gamma hydroxybutyrate (GHB)	50 mg/L	10 mg/L

Gabapentin, Pregabalin by GC/MS

Analyte	Reporting limit in Blood
Gabapentin	0.5 ug/mL
Pregabalin	0.5 ug/mL



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Alkaline Drug Screen by GC/MS

Analyte	Approximate Detectable Concentration (ng/mL)*
Amantadine	not determined
Amitriptyline	10
Amoxapine	not determined
Atropine	not determined
Benztropine	not determined
Brompheniramine	not determined
Bupivacaine	not determined
Bupropion	10
Chlorpheniramine	25
Chlorpromazine	25
Citalopram/escitalopram**	10
Clomipramine	10
Clozapine	not determined
Cyclobenzaprine	10
Desipramine	25
Desmethylcitalopram	50
Dextromethorphan	10
Diphenhydramine	10
Doxepin	25
Doxylamine	10
Duloxetine	150
Etomidate	not determined
Fluoxetine	not detected at 100 ng/mL
Imipramine	10
Ketamine	10
Lidocaine	not determined
Loxapine	not determined



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Alkaline Drug Screen by GC/MS Continued

Analyte	Approximate Detectable Concentration (ng/mL)*
Meperidine	not determined
Methadone	10
Metoclopramide	not determined
Mirtazapine	50
Norquetiapine	250
Norsertaline	50
Nortripyline	50
O-desmethyltramadol	100
O-desmethylvenlafaxine	50
Orphenadrine	not determined
Paroxetine	50
Pentazocine	50
Propoxyphene	25
Pseudoephedrine/ephedrine	100
Quinine/quinidine**	not determined
Sertaline	25
Strychnine	14
Thioridazine	25
Tramadol	50
Trazodone	50
Trimipramine	not determined
Venlafaxine	50
Verapamil	25
Zolpidem	25

*Due to the nature of certain specimens (e.g., decompositional fluid, spleen, and liver), detectable concentrations may be elevated.

**This laboratory cannot differentiate between stereoisomers.

Alkaline drug screening for gastric contents is conducted on a 1:25 dilution.



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Alkaline Drug Screen by GC/MS Continued

“Substituted cathinone”

Detectable Analytes
Butylone
Dibutylone
Ethcathinone
Ethylone
Eutylone
Mephedrone
Methylenedioxypropylone (MDPV)
4-methylethcathinone
Methylone
N-ethylpentylone
Pentylone
2-pyrrolidinovalerone (alpha-PVP)

Fentanyl analogs

Detectable Analytes
Acetyl fentanyl
4-ANPP (despropionyl fentanyl)
4-methoxybutyryl fentanyl
Acryl fentanyl
Butyryl fentanyl
Crotonyl fentanyl
Cyclopropyl fentanyl
Fluorobutyryl fentanyl
Fluoro fentanyl
Furanyl fentanyl
Methoxyacetyl fentanyl
Tetrahydrofuran fentanyl
Valeryl fentanyl

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Acid Neutral Drug Screen by GCMS

Analyte	Approximate Detectable Concentration (ug/mL)*
acetaminophen	0.5
butalbital	0.05
caffeine	not determined
carbamazepine	0.25
carisoprodol	0.25
celecoxib	not determined
ibuprofen	2
lamotrigine	0.25
levetiracetam	0.25
meprobamate	0.25
metaxalone	not determined
naproxen	1
phenobarbital	0.25
phenytoin	0.25
primidone	not determined
theophylline	not determined
topiramate	0.25
trimethoprim	not determined
valproic acid	25
warfarin	not determined
zonisamide	not determined

*Due to the nature of certain specimens (e.g., decompositional fluid, spleen, and liver), detectable concentrations may be elevated.

Acid neutral screening for gastric contents is conducted on a 1:25 dilution.

Salicylates by CT

Analyte	Limit of Detection
Salicylates	100 ug/mL



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Quantitation/Confirmation

Volatiles by HS GC/FID

Analyte	Reporting limit	Limit of detection
Acetone	10 mg%	2.5 mg%
Ethanol	0.01 g%	0.005 g%
Isopropanol	10 mg%	2.5 mg%
Methanol	10 mg%	10 mg%

Only analytes listed on the report underwent analysis for volatiles by HS GC/FID.

Carbon Monoxide by UV/Vis

Analyte	Reporting limit
Carbon monoxide	10% carboxyhemoglobin

Alkaline Drugs by GC/MS

Analyte	Reporting limit in blood	Reporting limit in liver
Citalopram/escitalopram**	5 ng/mL	50 ng/g
Diphenhydramine	5 ng/mL	50 ng/g
Doxylamine	5 ng/mL	50 ng/g
Fentanyl	0.125 ng/mL	5 ng/g
Ketamine	5 ng/mL	50 ng/g
Methadone	5 ng/mL	50 ng/g
Mirtazapine	5 ng/mL	50 ng/g
Zolpidem	5 ng/mL	50 ng/g

Only analytes listed on the report underwent alkaline drug quantitation by GC/MS.

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Alkaline Drugs by LC/MS/MS

Analyte	Reporting limit in blood	Reporting limit in liver
Amitriptyline	5 ng/mL	50 ng/g
Nortriptyline	5 ng/mL	50 ng/g
Citalopram/escitalopram**	5 ng/mL	50 ng/g
Desmethylcitalopram	5 ng/mL	50 ng/g
Cyclobenzaprine	5 ng/mL	50 ng/g
Fluoxetine	5 ng/mL	50 ng/g
Norfluoxetine	10 ng/mL	50 ng/g
Mirtazapine	5 ng/mL	50 ng/g
Paroxetine	5 ng/mL	50 ng/g
Sertraline	5 ng/mL	50 ng/g
Norsertaline	10 ng/mL	NA
Tramadol	5 ng/mL	50 ng/g
O-desmethyltramadol	5 ng/mL	50 ng/g
Venlafaxine	5 ng/mL	50 ng/g
O-desmethylvenlafaxine	5 ng/mL	50 ng/g
Zolpidem	5 ng/mL	50 ng/g

Only analytes listed on the report underwent alkaline drug quantitation by LC/MS/MS.

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Bupropion, Hydroxybupropion by GC/MS

Analyte	Reporting limit in blood
Bupropion	5 ng/mL
Hydroxybupropion	10 ng/mL



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Acid Neutral Drugs by GC/MS

Analyte	Reporting limit in blood	Reporting limit in liver
Butalbital	0.1 ug/mL	0.2 ug/g
Carbamazepine	1 ug/mL	2 ug/g
Carisoprodol	1 ug/mL	2 ug/g
Meprobamate	1 ug/mL	2 ug/g
Phenobarbital	1 ug/mL	2 ug/g
*Phenytoin	1 ug/mL	2 ug/g

Only analytes listed on the report underwent acid neutral drug quantitation by GC/MS.

*Phenytoin quantitation is currently suspended.

Cocaine/metabolites by GC/MS

Analyte	Reporting limit for blood	Reporting limit for urine [^]	Reporting limit for liver
Cocaine	5 ng/mL	50 ng/mL	50 ng/g
Benzoyllecgonine	5 ng/mL	50 ng/mL	50 ng/g
Cocaethylene	5 ng/mL	50 ng/mL	50 ng/g

[^]Report urine qualitatively only.

Cannabinoids by LC/MS/MS

Analyte	Reporting limit in blood
Delta-9 THC	0.5 ng/mL
11-Hydroxy Delta-9 THC	1 ng/mL
Delta-9 Carboxy THC	2.5 ng/mL



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Benzodiazepines by GC/MS

Analyte	Reporting limit in blood	Reporting limit in liver
Alprazolam	5 ng/mL	50 ng/g
Diazepam	10 ng/mL	50 ng/g
Lorazepam	5 ng/mL	50 ng/g
Nordiazepam	10 ng/mL	50 ng/g
Oxazepam	10 ng/mL	50 ng/g
Temazepam	10 ng/mL	N/A

Only analytes listed on the report underwent benzodiazepine quantitation by GC/MS.

Benzodiazepines by LC/MS/MS

Analyte	Reporting limit in Blood
7-aminoclonazepam	5 ng/mL
Alpha-hydroxyalprazolam	5 ng/mL
Alprazolam	5 ng/mL
Chlordiazepoxide	10 ng/mL
Clonazepam	5 ng/mL
Diazepam	10 ng/mL
Estazolam	10 ng/mL
Etizolam	5 ng/mL
Lorazepam	5 ng/mL
Midazolam	10 ng/mL
Nordiazepam	10 ng/mL
Oxazepam	10 ng/mL
Temazepam	10 ng/mL
Triazolam	10 ng/mL
Zaleplon	5 ng/mL



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Opiates by GC/MS

Analyte	Reporting limit in blood, vitreous	Reporting limit in Urine [^]	Reporting limit in liver
Codeine	10 ng/mL	25 ng/mL	50 ng/g
Morphine	10 ng/mL	25 ng/mL	50 ng/g
Hydrocodone	5 ng/mL	25 ng/mL	50 ng/g
Hydromorphone	2.5 ng/mL	25 ng/mL	50 ng/g
6-acetylmorphine	2.5 ng/mL	2.5 ng/mL	50 ng/g
Methadone*	5 ng/mL	25 ng/mL	50 ng/g

[^]Report urine qualitatively only.

*Methadone will only be listed on the report if it underwent opiates quantitation by GC/MS.

6-acetylmorphine by GC/MS

Analyte	Reporting limit in blood, vitreous	Reporting limit in urine [^]	Reporting limit in liver
6-acetylmorphine	2.5 ng/mL	2.5 ng/mL	50 ng/g

[^]Report urine qualitatively only.

Oxycodone, Oxymorphone by GC/MS

Analyte	Reporting limit in blood, vitreous	Reporting limit in urine [^]	Reporting limit in liver
Oxycodone	5 ng/mL	25 ng/mL	50 ng/g
Oxymorphone	2.5 ng/mL	25 ng/mL	50 ng/g

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Amphetamines by GC/MS

Analyte	Reporting limit for blood	Report limit for urine [^]	Report limit for liver
Amphetamine	10 ng/mL	50 ng/mL	50 ng/g
Ephedrine	10 ng/mL	50 ng/mL	50 ng/g
Methamphetamine	10 ng/mL	50 ng/mL	50 ng/g
Methylenedioxyamphetamine(MDA)	10 ng/mL	50 ng/mL	50 ng/g
Methylenedioxymethamphetamine (MDMA)	20 ng/mL	50 ng/mL	50 ng/g
Phentermine ^{^^}	20 ng/mL	50 ng/mL	50 ng/g
Phenylpropanolamine	10 ng/mL	50 ng/mL	50 ng/g
Pseudoephedrine	10 ng/mL	50 ng/mL	50 ng/g

This laboratory cannot differentiate between stereoisomers.

Note: Ephedrine's report limit is raised to 100 ng/mL for blood, 200ng/mL for urine, or 200 ng/g for liver when pseudoephedrine is also positive.

[^]Report urine qualitatively only.

^{^^}Report phentermine qualitatively only.

Phencyclidine (PCP) by GC/MS

Analyte	Reporting limit in blood
Phencyclidine (PCP)	0.5 ng/mL