



Alabama Department of Forensic Sciences  
Toxicology Scope of Analysis

The following list of substances represents the full scope of analysis of the Toxicology Discipline as of 06/28/2022. Available quantitative analyses are also indicated. This scope may be limited for certain case types. Please contact the laboratory for details.

Analyte	Quantitative Analysis	LOD	SOP
1-Benzylpiperazine (BZP)			TX-08
2-fluoro-deschloroketamine		1.0 ng/mL	TX-40
3-MeO-PCP		1.0 ng/mL	TX-40
3,4-Methylenedioxypropylvalerone (MDPV)			TX-08/TX-12
3-Trifluoromethylphenylpiperazine (TFMPP)			TX-08
4-chloro-2,5-dimethoxyamphetamine (DOC)			TX-08
4-Cyano-CUMYL-BUTINACA		0.005 ng/mL	TX-33
4F-MDMB-BUTINACA		0.005 ng/mL	TX-33
5F-ADB		0.005 ng/mL	TX-33
5F-ADB-PINACA		0.005 ng/mL	TX-33
5F-MDMB-PICA		0.01 ng/mL	TX-33
5F-PB-22		0.005 ng/mL	TX-33
5-MeO-DiPT		1.0 ng/mL	TX-40
6-Monoacetylmorphine		5.0 ng/mL	TX-20
6-Monoacetylmorphine		1.0 ng/mL	TX-36
6-Monoacetylmorphine	X	1.0 ng/mL	TX-41
7-Aminoflunitrazepam		1.0 ng/mL	TX-38
7-OH-Mitragynine		5.0 ng/mL	TX-40
9-carboxy-11-nor-delta-9-THC (THC-COOH)	X	2.5 ng/mL	TX-39
9-carboxy-11-nor-delta-9-THC (THC-COOH)	X	1.0 ng/mL	TX-35
9R-delta-10-tetrahydrocannabinol		1.0 ng/mL	TX-35
9S-delta-10-tetrahydrocannabinol		1.0 ng/mL	TX-35
10, 11-dihydro-10-hydroxycarbazepine	X	0.125 µg/mL	TX-32
11-hydroxy-delta-9-THC (THC-OH)	X	0.5 ng/mL	TX-39
11-hydroxy-delta-9-THC (THC-OH)	X	4.0 ng/mL	TX-35
25B-NBOMe		0.5 ng/mL	TX-40
25C-NBOMe		1.0 ng/mL	TX-40
25E-NBOMe		0.5 ng/mL	TX-40
25I-NBOMe		1.0 ng/mL	TX-40
AB-FUBINACA		0.10 ng/mL	TX-33
Acetaminophen		30 µg/mL	TX-09
Acetone	X	100 mg/L	TX-04
Acetyl fentanyl		0.10 ng/mL	TX-34
Acrylfentanyl		0.10 ng/mL	TX-34
ADB-FUBINACA		0.01 ng/mL	TX-33
Alpha-PVP			TX-08/TX12
Alprazolam	X	1.0 ng/mL	TX-38
Alprazolam		1.0 ng/mL	TX-36



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Analyte	Quantitative Analysis	LOD	SOP
Alprazolam			TX-08/TX-12
Amantadine			TX-08/TX-12
AMB-CHMINACA		0.005 ng/mL	TX-33
Amitriptyline	X	20 ng/mL	TX-12
Amitriptyline		25 ng/mL	TX-08
Amlodipine			TX-08/TX-12
Amobarbital			TX-09
Amoxapine			TX-08
Amphetamine	X	5.0 ng/mL	TX-18/TX-41
Amphetamine		20 ng/mL	TX-36
Amphetamine			TX-08
Anhydroecgoninemethylester			TX-08
APP-BUTINACA		0.05 ng/mL	TX-33
AP 238		0.10 ng/mL	TX-34
Atenolol			TX-08/TX-12
Atomoxetine			TX-08
Atropine/hyoscyamine			TX-08/TX-12
Atropine		0.5 ng/mL	TX-40
Benzoylcegonine	X	10 ng/mL	TX-15/TX-41
Benzoylcegonine		10 ng/mL	TX-36
Benzotropine			TX-08/TX-12
Bisoprolol			TX-08
Brivaracetam			TX-09
Bromazepam		2.5 ng/mL	TX-38
Bromo-Dragon-FLY		5.0 ng/mL	TX-40
Brompheniramine			TX-08/TX-12
Brorphine		0.10 ng/mL	TX-34
Bupivacaine			TX-08/TX-12
Buprenorphine	X	0.1 ng/mL	TX-31
Buprenorphine		2.0 or 4.0 ng/mL	TX-36
Bupropion		25 ng/mL	TX-08
Buspirone			TX-08
Butalbital		0.10 µg/mL	TX-09
Butonitazine		0.50 ng/mL	TX-34
Butylone		2.0 ng/mL	TX-40
Butyryl fentanyl		0.10 ng/mL	TX-34
Caffeine			TX-08/TX-12
Cannabidiol (CBD)		0.5 ng/mL	TX-39
Cannabidiol (CBD)	X	0.2 ng/mL	TX-35
Cannabigerol (CBG)		0.5 ng/mL	TX-39
Cannabigerol (CBG)	X	0.2 ng/mL	TX-35
Cannabinol (CBN)		0.5 ng/mL	TX-39



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Analyte	Quantitative Analysis	LOD	SOP
Cannabinol (CBN)	X	0.5 ng/mL	TX-35
Carbamazepine		0.25 µg/mL	TX-09
Carbamazepine	X	0.125 µg/mL	TX-32
Carbinoxamine			TX-08
Carbofuran			TX-08
Carbon monoxide			TX-11
Carboxyhemoglobin	X	10%	TX-10
Carfentanil		0.05 ng/mL	TX-34
Carisoprodol	X	1.0 ug/mL	TX-13
Carisoprodol		0.10 µg/mL	TX-09
Carisoprodol		100 ng/mL	TX-36
Chlordiazepoxide	X	1.0 ng/mL	TX-38
Chlordiazepoxide			TX-08/TX-12
Chloroquine			TX-08/TX-12
Chlorpheniramine		25 ng/mL	TX-08
Chlorpheniramine			TX-12
Chlorpromazine			TX-08/TX-12
Chlorzoxazone			TX-09
Citalopram/Escitalopram		25 ng/mL	TX-08
Citalopram/Escitalopram			TX-12
Clobazam		2.5 ng/mL	TX-38
Clomipramine			TX-08/TX-12
Clonazepam	X	1.0 ng/mL	TX-38
Clonazepam		4.0 ng/mL	TX-36
Clonazolam		2.5 ng/mL	TX-38
Clonidine			TX-08/TX-12
Clopidogrel		1.0 µg/mL	TX-09
Clozapine		50 ng/mL	TX-08
Cocaethylene	X	10 ng/mL	TX-15
Cocaethylene		10 ng/mL	TX-08/TX-12
Cocaethylene	X	5.0 ng/mL	TX-41
Cocaine	X	10 ng/mL	TX-15
Cocaine		10 ng/mL	TX-36
Cocaine			TX-08/TX-12
Cocaine	X	5.0 ng/mL	TX-41
Codeine	X	5.0 ng/mL	TX-20/TX-41
Codeine		25 ng/mL	TX-08
Cotinine			TX-08/TX-12
Cyclobenzaprine	X	10 ng/mL	TX-12
Cyclobenzaprine		25 ng/mL	TX-08
Cyclopropyl fentanyl		0.10 ng/mL	TX-34
Cyproheptadine			TX-08/TX-12



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Analyte	Quantitative Analysis	LOD	SOP
Delorazepam		2.5 ng/mL	TX-38
Delta-8-tetrahydrocannabinol		1.0 ng/mL	TX-39
Delta-8-tetrahydrocannabinol		1.0 ng/mL	TX-35
Delta-9-tetrahydrocannabinol (THC)	X	0.50 ng/mL	TX-39
Delta-9-tetrahydrocannabinol (THC)		1.0 ng/mL	TX-35
Desalkylhydroxyzine			TX-08/TX-12
Deschloroetizolam		2.5 ng/mL	TX-38
Deschloroketamine		2.0 ng/mL	TX-40
Desipramine			TX-08/TX-12
Desmethylcitalopram		250 ng/mL	TX-08
Desmethylcitalopram			TX-12
Desmethyltramadol			TX-08/TX-12
Dextromethorphan	X	20 ng/mL	TX-12
Dextromethorphan		10 ng/mL	TX-08
Diazepam		25 ng/mL	TX-08
Diazepam		1.0 ng/mL	TX-36
Diazepam	X	1.0 ng/mL	TX-38
Diazoxide			TX-09
Diclazepam		2.5 ng/mL	TX-38
Dicyclomine			TX-08/TX-12
Dihydrocodeine			TX-08/TX-12
Diltiazem			TX-08/TX-12
Diphenhydramine	X	20 ng/mL	TX-12
Diphenhydramine		10 ng/mL	TX-08
Donepezil			TX-08/TX-12
Doxepin			TX-08/TX-12
Doxylamine			TX-08/TX-12
DMT		2.0 ng/mL	TX-40
Ephedrine/Pseudoephedrine			TX-08
Estazolam		2.5 ng/mL	TX-38
Ethanol	X	0.01 g/100 mL	TX-04
Ethylecgonine			TX-08
Ethylidine-dimethyl-diphenylpyrrolidine (EDDP)	X	50 ng/mL	TX-12/TX-08
Ethyl-methyl-diphenylpyrroline (EMDP)			TX-08/TX-12
Ethylone			TX-08/TX12
Etizolam		2.5 ng/mL	TX-38
Etodesnitazine		0.50 ng/mL	TX-34
Etomidate			TX-08/TX-12
Etonitazepyne (n-pyrrolidino etonitazene)		0.50 ng/mL	TX-34
Eutylone			TX-08
Eutylone		0.5 ng/mL	TX-40
Fenfluramine			TX-08



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Analyte	Quantitative Analysis	LOD	SOP
Fentanyl	X	0.10 ng/mL	TX-34
Fentanyl		1.0 ng/mL	TX-36
FIBF (Fluoroisobutyl fentanyl)		0.10 ng/mL	TX-34
Flecainide			TX-08/TX-12
Flualprazolam		0.5 ng/mL	TX-38
Flubromazepam		2.5 ng/mL	TX-38
Flubromazolam		2.5 ng/mL	TX-38
Fluconazole			TX-08/TX-12
Flumazenil			TX-08/TX-12
Flunitrazepam		2.5 ng/mL	TX-38
m-, o-, p-Fluorofentanyl		0.10 ng/mL	TX-34
Fluoxetine		100 ng/mL	TX-08
Flutoprazepam		0.5 ng/mL	TX-38
Fluvoxamine			TX-08/TX-12
FUB-AMB		0.025 ng/mL	TX-33
Furanyl fentanyl		0.10 ng/mL	TX-34
Gabapentin	X	0.125 µg/mL	TX-32
Guaifenesin		5.0 µg/mL	TX-09
Haloperidol			TX-08/TX-12
Hydrocodone	X	5.0 ng/mL	TX-20/TX-41
Hydrocodone		25 ng/mL	TX-08
Hydrococond			TX-12
Hydrocodone		4.0 ng/mL	TX-36
Hydromorphone	X	1.0 ng/mL	TX-41
Hydroxycarbazepine			TX-09
Hydroxycarbazepine	X	0.125 µg/mL	TX-32
Hydroxychloroquine			TX-08/TX-12
Hydroxyzine			TX-08/TX-12
Ibuprofen		0.50 µg/mL	TX-09
Imipramine		25 ng/mL	TX-08
Imipramine			TX-12
Isopropanol	X	100 mg/L	TX-04
Isotonitazine		0.50 ng/mL	TX-34
JWH-018		0.005 ng/mL	TX-33
Ketamine			TX-08/TX-12
Ketamine		2.0 ng/mL	TX-40
Lamotrigine		5.0 µg/mL	TX-09
Lamotrigine	X	0.125 µg/mL	TX-32
Laudanosine			TX-08/TX-12
Levamisole			TX-08/TX-12
Levetiracetam		10 µg/mL	TX-09
Levetiracetam	X	0.125 µg/mL	TX-32



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Analyte	Quantitative Analysis	LOD	SOP
Levorphanol			TX-08/TX-12
Lidocaine		25 ng/mL	TX-08
Lidocaine			TX-12
Loratadine			TX-08/TX-12
Lorazepam	X	4.0 or 5.0 ng/mL	TX-38
Lorazepam		10 ng/mL	TX-36
Loxapine			TX-08/TX-12
MDMB-4en-PINACA		0.025 ng/mL	TX-33
MDMB-CHIMICA		0.005 ng/mL	TX-33
MDMB-CHMINACA		0.005 ng/mL	TX-33
MDMB-FUBINACA		0.005 ng/mL	TX-33
Meclizine			TX-08/TX-12
Meclonazepam		2.5 ng/mL	TX-38
Memantine			TX-08/TX-12
Meperidine	X	5.0 ng/mL	TX-20/TX-41
Meperidine		10 ng/mL	TX-08
Mephedrone			TX-08
Mephobarbital			TX-09
Mepivacaine			TX-08/TX-12
Meprobamate	X	2.0 µg/mL	TX-13
Meprobamate		0.10 µg/mL	TX-09
Meprobamate		100 ng/mL	TX-36
Mepyramine			TX-08
Mescaline		5.0 ng/mL	TX-40
Mesoridazine			TX-08/TX-12
Metaxalone			TX-09
Methadone	X	20 ng/mL	TX-12
Methadone	X	5.0 ng/mL	TX-20/TX-41
Methadone		10 ng/mL	TX-36
Methamphetamine	X	5.0 ng/mL	TX-18
Methamphetamine		50 ng/mL	TX-08
Methamphetamine		20 ng/mL	TX-36
Methamphetamine	X	10 ng/mL	TX-41
Methanol	X	100 mg/L	TX-04
Methocarbamol		1.0 µg/mL	TX-09
Methoxetamine		5.0 ng/mL	TX-40
Methoxyacetyl fentanyl		0.10 ng/mL	TX-34
Methylecgonine			TX-08/TX-12
Methylenedioxyamphetamine (MDA)			TX-08/TX-12
Methylenedioxymethamphetamine (MDMA)			TX-08/TX-12
Methylenedioxypropylone (MDPV)			TX-08/TX-12
Methylone			TX-08/TX-12



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Analyte	Quantitative Analysis	LOD	SOP
Methylone		1.0 ng/mL	TX-40
Methylphenidate			TX-08/TX-12
Methylphenidate		5.0 ng/mL	TX-40
Metoclopramide			TX-08/TX-12
Metonitazine		0.50 ng/mL	TX-34
Metoprolol		100 ng/mL	TX-08
Metoprolol			TX-12
Metronidazole			TX-08/TX-12
Midazolam			TX-08/TX-12
Midazolam	X	1.0 ng/mL	TX-38
Mirtazapine			TX-08/TX-12
Mitragynine		0.50 ng/mL	TX-34
Mitragynine		1.0 ng/mL	TX-40
MO-CHMINACA		0.025 ng/mL	TX-33
Monoethylglycylxylidine (MEGX)			TX-08/TX-12
Morphine	X	5.0 ng/mL	TX-20/TX-41
Morphine		4.0 ng/mL	TX-36
Naloxone	X	0.10 ng/mL	TX-31
Naproxen		2.0 µg/mL	TX-09
N-Desmethyltramadol			TX-08/TX-12
N-ethyl Pentylone		0.5 ng/mL	TX-40
Nevirapine			TX-08/TX-12
Nicotine			TX-08/TX-12
Norbuprenorphine	X	0.25 ng/mL	TX-31
Norclozapine			TX-08/TX-12
Norcocaine			TX-08/TX-12
Norcyclobenzaprine			TX-08/TX-12
Nordiazepam	X	1.0 ng/mL	TX-38
Nordiazepam		1.0 ng/mL	TX-36
Nordiazepam			TX-08/TX-12
Nordoxepin			TX-08/TX-12
Norfenfluramine			TX-08
Norfentanyl			TX-08/TX-12
Norfluoxetine			TX-08/TX-12
Norketamine			TX-08/TX-12
Normeperidine			TX-08/TX-12
Norpromethazine			TX-08/TX-12
Norpropoxyphene			TX-08/TX-12
Norsertaline			TX-08/TX-12
Nortriptyline	X	50 ng/mL	TX-12
Nortriptyline		100 ng/mL	TX-08
Norvenlafaxine			TX-08/TX-12



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Analyte	Quantitative Analysis	LOD	SOP
Norverapamil			TX-08/TX-12
O-Desmethyltramadol			TX-08/TX-12
Olanzapine			TX-08/TX-12
Ondansetron			TX-08/TX-12
Orphenadrine			TX-08/TX-12
Oxaprozin			TX-08
Oxazepam		1.0 µg/mL	TX-09
Oxazepam	X	1.0 ng/mL	TX-38
Oxcarbazepine	X	0.125 µg/mL	TX-32
Oxycodone	X	5.0 ng/mL	TX-20
Oxycodone		50 ng/mL	TX-08
Oxycodone		4.0 ng/mL	TX-36
Oxycodone	X	10 ng/mL	TX-41
Oxycodone			TX-12
Oxymorphone	X	1.0 ng/mL	TX-41
Papaverine			TX-08/TX-12
Para-Fluorofuranyl fentanyl		0.10 ng/mL	TX-34
Para-methyl AP 237		0.10 ng/mL	TX-34
Paroxetine		250 ng/mL	TX-08
Paroxetine			TX-12
Pentazocine			TX-08/TX-12
Pentobarbital		0.10 µg/mL	TX-09
Pentoxifylline			TX-08/TX-12
Phenazepam		2.5 ng/mL	TX-38
Phencyclidine			TX-08/TX-12
Phencyclidine		1.0 ng/mL	TX-40
Phendimetrazine			TX-08/TX-12
Pheniramine			TX-08/TX-12
Phenmetrazine			TX-08/TX-12
Phenobarbital		0.10 µg/mL	TX-09
Phentermine			TX-08
Phenyltoloxamine			TX-08/TX-12
Phenytoin		0.10 µg/mL	TX-09
Phenytoin	X	0.25 µg/mL	TX-32
Pramoxine			TX-08/TX-12
Pregabalin	X	0.125 µg/mL	TX-32
Primidone			TX-09
Prochlorperazine			TX-08/TX-12
Promethazine			TX-08/TX-12
Propafenone			TX-08
Propofol			TX-08
Propoxyphene			TX-08/TX-12





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Analyte	Quantitative Analysis	LOD	SOP
Propranolol			TX-08
Propranolol			TX-12
Protonitazine		0.50 ng/mL	TX-34
Pyrazolam		2.5 ng/mL	TX-38
Quetiapine			TX-08/TX-12
Quinine/ Quinidine			TX-08/TX-12
Ranitidine			TX-08/TX-12
Risperidone			TX-08/TX-12
Ropivacaine			TX-08/TX-12
Salicylamide			TX-09
Salicylic acid			TX-09
Scopolamine		0.5 ng/mL	TX-40
Secobarbital			TX-09
Sertraline			TX-08/TX-12
Strychnine			TX-08/TX-12
Sulforidazine			TX-08/TX-12
Tapentadol			TX-08/TX-12
Tapentadol	X	5.0 ng/mL	TX-41
Temazepam			TX-08/TX-12
Temazepam	X	1.0 ng/mL	TX-38
Theophylline			TX-09
Thiopental		0.10 µg/mL	TX-09
Thioridazine			TX-08/TX-12
Threo-4-fluoro-Methylphenidate		5.0 ng/mL	TX-40
Tianeptine		25 ng/mL	TX-34
Ticlopidine			TX-08/TX-12
Toluene			TX-04
Topiramate		0.10 µg/mL	TX-09
Topiramate	X	0.125 µg/mL	TX-32
Tramadol	X	50 ng/mL	TX-12
Tramadol		10 ng/mL	TX-08
Tramadol		10 ng/mL	TX-36
Trazodone		100 ng/mL	TX-08
Trazodone			TX-12
Triazolam		2.5 ng/mL	TX-38
Trifluoromethylpiperazine (TFMPP)			TX-08
Trihexyphenidyl			TX-08/TX-12
Trimethobenzamide			TX-08
Trimethoprim			TX-08/TX-12
Tripolidine			TX-08
U-47700 (designer opioid)		0.10 ng/mL	TX-34
Valeryl fentanyl		0.10 ng/mL	TX-34
Valproic acid		2.0 µg/mL	TX-09
Venlafaxine		50 ng/mL	TX-08



Analyte	Quantitative Analysis	LOD	SOP
Venlafaxine			TX-12
Verapamil			TX-08/TX-12
Warfarin		2.0 µg/mL	TX-09
Zaleplon		1.0 ng/mL	TX-38
Zolpidem	X	1.0 ng/mL	TX-38
Zolpidem		50 ng/mL	TX-08
Zolpidem			TX-12
Zolpidem		10 ng/mL	TX-36
Zonisamide	X	0.125 µg/mL	TX-32

SOP	Analysis Type
TX-08	Basic drugs analysis
TX-09	Weak acid/neutral drugs analysis
TX-12	Select basic drugs quantification
TX-13	Carisoprodol/Meprobamate quantification
TX-15	Cocaine and metabolites quantification
TX-18	Methamphetamine and Amphetamine quantification
TX-20	Select Opioids quantification
TX-31	Buprenorphine quantification
TX-32	Anti-epileptic drugs quantification
TX-33	Synthetic cannabinoids analysis
TX-34	Fentanyl and Non-pharmaceutical Fentanyls/Opioids analysis
TX-35	Cannabinoids in Oral Fluid analysis
TX-36	Drug screen in Oral Fluid
TX-38	Benzodiazepines quantification
TX-39	Cannabinoids quantification
TX-40	Designer Stimulants and Hallucinogens analysis
TX-41	Opioids and Stimulants quantification