

Clinical Drug Monitoring Reference Guide



Quest Diagnostics

Patient Information		Specimen Information	Client Information
DOB:	AGE:	Specimen:	Client #:
Gender:	Fasting:	Requisition:	TEST CLIENT (HQ) 5
Phone:		Lab Ref #:	Attn:
Patient ID:		Collected:	
		Received:	
		Reported:	
		(A Copy From)	

Room: 12 Bed: 15

COMMENTS:

medMATCH® Drug Monitoring Report

medMATCH indicates presence or absence of prescribed and not prescribed drugs. Prescribed drugs are provided by the ordering clinician.

Legend	medMATCH Summary		
✓ = Consistent	Prescribed Consistent Drugs prescribed and detected	Prescribed Inconsistent Drugs prescribed but not detected	Not Prescribed Inconsistent Drugs detected but not prescribed
X = Inconsistent	✓ = Buprenorphine Nalox	X = Gabapentin	X = Ethyl Sulfate (ETS)
◆ = Prescribed			

Prescriptions reported by client with no testing ordered: Zolpidem

Test Ordered	Result	Cutoff	medMATCH	Lab
DRUG MONITORING, PANEL 6 WITH CONFIRMATION, URINE				
Alcohol Metabolites				
Ethyl Glucuronide (ETG)	POSITIVE	500 ng/mL		IG
Ethyl Sulfate (ETS)	NEGATIVE	500 ng/mL		
	100	100 ng/mL		
Alcohol Metab Comments: See Alcohol Metab Notes, LDT Notes				
Amphetamines				
Benzodiazepines	NEGATIVE	500 ng/mL		
Buprenorphine	NEGATIVE	100 ng/mL		
	POSITIVE	5 ng/mL		

Clinical Drug Monitoring Test List with Test Codes

To add medMATCH® include code 39158 with your order.

Drug Class

P	P,D	D
Alcohol Metabolites	39366	39384
Amphetamines	39344	39367 39385
Amphetamines with Reflex d/l Isomers	39368	39386
Antidepressants (urine) ^d	94032	
Antidepressants (serum) ^d	94031	
Antipsychotics (urine) ^d	94528	
Antipsychotics (serum) ^d	94529	
Barbiturates	39350	39369 39387
Benzodiazepines	39352	39371 39389

Drug Class

P	P,D	D
Buprenorphine with Naloxone	39353	39373 39391
Carisoprodol		39403
Cocaine Metabolite	39354	39374 39392
Eszopiclone		39434
Fentanyl	39356	39375 39393
Gabapentin		39407
Heroin Metabolite	39357	39376 39394
Marijuana Metabolite	39358	39377 39395
MDMA/MDA	39359	39378 39397
Meperidine		39408

Drug Class

P	P,D	D
Methadone Metabolite	39360	39379 39398
Methamphetamine d/l Isomers		39413
Methylphenidate		39409
Mitragynine	39432	39431
Naltrexone		39414
Opiates	39361	39380 39399 ^a
Opioids Panel ^b	39013	39012
Oxycodone	39363	39381 39399 ^c
Phencyclidine	39364	39382 39401
Pregabalin		39410

Drug Class

P	P,D	D
Propoxyphene	39365	39383 39402
Synthetic Cannabinoids ^d	93027	
Synthetic Stimulants		39412
Tapentadol		39405
Tramadol		39406
Tricyclic Antidepressants		39411
Zolpidem		39435

^a Includes oxycodone drug class.

^b Included in Opioids Panel: Buprenorphine, Dextromethorphan, Fentanyl, Heroin, Methadone, Mitragynine, Opiates, Oxycodone, Tapentadol, Tramadol.

^c Included in Expanded Opiates.

^d medMATCH not available at this time.

Test Panels

Panel Name and Test Codes	Base Panel		Panel 1			Panel 3		Panel 4		Panel 5			Panel 6	Panel 7	Panel 8
	39415	39421	39416	39422	39426	39418	39423	39419	39424	39420	39425	39427	39428	39429	39430
Drug Class	P	P,D	P	P,D	P,D	P	P,D	P	P,D	P	P,D	P,D	P,D	P,D	P,D
Alcohol Metabolites/ETG													ALC	ALC	ALC
Amphetamines			AMP	AMP		AMP	AMP	AMP	AMP	AMP	AMP		AMP	AMP	AMP
Amphetamines d/l Isomers					ADL							ADL			
Barbiturates			BAR	BAR	BAR			BAR	BAR	BAR	BAR	BAR	BAR	BAR	
Benzodiazepines	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN	BEN
Buprenorphine with Naloxone															BUP
Cocaine Metabolite	COC	COC	COC	COC	COC	COC	COC	COC	COC	COC	COC	COC	COC	COC	COC
Heroin Metabolite													HER	HER	HER
Marijuana Metabolite			MAR	MAR	MAR	MAR	MAR			MAR	MAR	MAR	MAR	MAR	MAR
MDMA/MDA															MDM
Methadone Metabolite			MTH	MTH	MTH			MTH	MTH	MTH	MTH	MTH	MTH	MTH	
Opiates	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI	OPI
Oxycodone	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Phencyclidine			PCP	PCP	PCP			PCP	PCP				PCP		

P = Presumptive D = Definitive

Clinical Drug Monitoring Test Panels

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Base Panel

39415 (P), 39421 (P,D)

Benzodiazepines
Cocaine Metabolite
Opiates
Oxycodone

Panel 1

39416 (P), 39422 (P,D)

Amphetamines
Barbiturates
Benzodiazepines
Cocaine Metabolite
Marijuana Metabolite
Methadone Metabolite
Opiates
Oxycodone
Phencyclidine

Panel 1 with Amphetamines d/l Isomers

39426 (P,D)

Amphetamines with Reflex d/l Isomers
Barbiturates
Benzodiazepines
Cocaine Metabolite
Marijuana Metabolite
Methadone Metabolite
Opiates
Oxycodone
Phencyclidine

Panel 3

39418 (P), 39423 (P,D)

Amphetamines
Benzodiazepines
Cocaine Metabolite
Marijuana Metabolite
Opiates
Oxycodone

Panel 4

39419 (P), 39424 (P,D)

Amphetamines
Barbiturates
Benzodiazepines
Cocaine Metabolite
Methadone Metabolite
Opiates
Oxycodone
Phencyclidine

Panel 5

39420 (P), 39425 (P,D)

Amphetamines
Barbiturates
Benzodiazepines
Cocaine Metabolite
Marijuana Metabolite
Methadone Metabolite
Opiates
Oxycodone

Panel 5 with Amphetamines d/l Isomers

39427 (P,D)

Amphetamines with Reflex d/l Isomers
Barbiturates
Benzodiazepines
Cocaine Metabolite
Marijuana Metabolite
Methadone Metabolite
Opiates
Oxycodone

Panel 6

39428 (P,D)

Alcohol Metabolites/EtG
Amphetamines
Barbiturates
Benzodiazepines
Cocaine Metabolite
Heroin Metabolite
Marijuana Metabolite
Methadone Metabolite
Opiates
Oxycodone
Phencyclidine

Panel 7

39429 (P,D)

Alcohol Metabolites/EtG
Amphetamines
Barbiturates
Benzodiazepines
Cocaine Metabolite
Heroin Metabolite
Marijuana Metabolite
Methadone Metabolite
Opiates
Oxycodone

Panel 8

39430 (P,D)

Alcohol Metabolites/EtG
Amphetamines
Benzodiazepines
Buprenorphine with Naloxone
Cocaine Metabolite
Heroin Metabolite
Marijuana Metabolite
MDMA/MDA
Opiates
Oxycodone

Opioids Panel

39013 (P,D), 39012 (D)

Buprenorphine with Naloxone
Dextromethorphan
Fentanyl
Heroin Metabolite
Methadone Metabolite
Mitragnine
Opiates
Oxycodone
Tapentadol
Tramadol

P = Presumptive D = Definitive

For healthcare professionals seeking assistance with interpreting results, please contact a Quest Diagnostics Toxicology Specialist at 1.877.40.RX TOX (1.877.407.9869), M–F 8:00 AM to 10:00 PM ET.

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Reference Guide

Drug/Drug Class	Presumptive Cutoff (ng/mL)	Definitive Cutoff (ng/mL)	Reportable Drug or Metabolite	Additional Reportable Drug/Metabolite ^e	Examples of Generic/Trade/Street Name	Urine Detection Time ^e
Alcohol Metabolites	500	500 100	Ethyl Glucuronide (EtG) Ethyl Sulfate (EtS)	Ethyl Sulfate (EtS) Ethyl Glucuronide (EtG)		Up to 80 Hours
Amphetamines	500	250	Amphetamine Methamphetamine	Amphetamine	Amphetamine — Adderall®, Dexedrine®, Dextrostat®, Mydayis®, Vyvanse® Methamphetamine — Desoxyn®	1–3 Days
Amphetamines with Reflex Methamphetamine d/l Isomers	500	250	Amphetamine Methamphetamine d-Methamphetamine l-Methamphetamine	Amphetamine	Amphetamine — Adderall®, Dexedrine®, Dextrostat®, Mydayis®, Vyvanse® Methamphetamine — Desoxyn® d-Methamphetamine — Desoxyn® Benzphetamine d-metabolite — Didrex® Selegiline l-metabolite — Eldepryl® l-Methamphetamine — nasal inhaler	1–3 Days
Antidepressants ^f	10	10	Amitriptyline Amoxapine Citalopram/ Escitalopram Desmethylcitalopram Clomipramine Desmethylclomipramine Desipramine Doxepin Desmethyldoxepin Duloxetine Fluoxetine Norfluoxetine Fluvoxamine Norfluvoxamine Hydroxybupropion Imipramine Maprotiline	Nortriptyline Desmethylcitalopram Desmethylclomipramine Imipramine Desmethyldoxepin Norfluoxetine Norfluvoxamine Desipramine	Amitriptyline — Elavil®, Endep® Amoxapine — Asendin® Citalopram/Escitalopram — Celexa® (citalopram), Lexapro® (escitalopram) Clomipramine — Anafranil® Imipramine — Tofranil® Desipramine — Norpramin® Doxepin — Adapin®, Sinequan® Duloxetine — Cymbalta® Fluoxetine — Prozac® Fluvoxamine — Luvox® Hydroxybupropion — Aplenzin® (bupropion) Imipramine — Tofranil® Maprotiline — Ludiomil®	1–3 Days

^e Depends upon drug usage patterns, drug/drug metabolite elimination, and test cutoff.

^f Presumptive analysis uses mass spectrometry method of analysis.

Note: Unless otherwise specified, the presumptive method of analysis is immunoassay.

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Antidepressants ^f	10	10	Mirtazapine		Mirtazapine — Remeron [®]	1–3 Days
			Nortriptyline	Amitriptyline	Amitriptyline — Elavil [®] , Endep [®]	
			Paroxetine		Nortriptyline — Aventyl [®]	
			Protriptyline		Paroxetine — Paxil [®] , Seroxat [®]	
			Sertraline	Norsertraline	Protriptyline — Vivactil [®]	
	50	50	Norsertraline		Sertraline — Zoloft [®]	
			Trazodone	1-(3-Chlorophenyl) piperazine		
	10	10	1-(3-Chlorophenyl) piperazine		Trazodone — Desyrel [®]	
			Trimipramine		Trimipramine — Surmontil [®]	
			Venlafaxine	O-desmethylvenlafaxine	Venlafaxine — Effexor [®] XR (venlafaxine), Khedezla (desvenlafaxine)	
			O-desmethylvenlafaxine			
			Vilazodone		Vilazodone — Viibryd [®]	
			Vortioxetine		Vortioxetine — Trintellix [®]	

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Antipsychotics ^f	2	2	Aripiprazole	Dehydroxyaripiprazole	Aripiprazole — Abilify [®]	1–3 Days
		10	Dehydroxyaripiprazole			
	5	5	Brexipiprazole		Brexipiprazole — Rexulti [®]	
	5	5	Cariprazine		Cariprazine — Vraylar [®]	
	10	10	Chlorpromazine	7-OH-chlorpromazine	Chlorpromazine — Largactil [®] , Thorazine [®]	
			7-OH-chlorpromazine			
	25	25	Clozapine	Norclozapine	Clozapine — Clozaril [®]	
			Norclozapine			
	5	5	Fluphenazine	7-OH-fluphenazine	Fluphenazine — Modecate [®] , Prolixin [®]	
			7-OH-fluphenazine			
	1	1	Haloperidol		Haloperidol — Haldol [®]	
	5	5	Loxapine	8-hydroxyloxapine	Loxapine — Loxapac, Loxitane [®]	
			8-hydroxyloxapine			
Antipsychotics	5	5	Lurasidone		Lurasidone — Latuda [®]	1–3 Days
	10	10	Mesoridazine		Mesoridazine — Serentil [®]	
	5	5	Molindone		Molindone — Moban [®]	
	2.5	2.5	Olanzapine	Desmethylolanzapine	Olanzapine — Zyprexa [®]	
			Desmethylolanzapine			
	10	10	Quetiapine	Norquetiapine	Quetiapine — Seroquel [®]	
			Norquetiapine			
	5	5	Risperidone	OH-risperidone	Risperidone — Risperdal [®]	
Antipsychotics			OH-risperidone			1–3 Days
	50	50	Thioridazine		Thioridazine — Mellaril [®] , Mellaril	
			Thiothixene		Thiothixene — Navane [®]	
	5	5	Trifluoperazine		Trifluoperazine — Stelazine [®]	
			Ziprasidone		Ziprasidone — Geodon [®] , Zeldox [®]	

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Barbiturates	300	100	Amobarbital		Amobarbital — Amytal [®]	1–3 Days Short-Acting; >3 Long-Acting
			Butalbital		Butalbital — Esgic [®] , Fioricet [®] , Fiorinal [®] , Sandoptal [®]	
			Pentobarbital		Pentobarbital — Nembutal [®]	
			Phenobarbital		Phenobarbital — Luminal [®]	
			Secobarbital		Secobarbital — Seconal [®]	
Benzodiazepines	100	25	Alpha-hydroxyalprazolam		Alprazolam — Xanax [®]	1–3 Days Short-Acting; >3 Long-Acting
		50	Alpha-hydroxymidazolam		Midazolam — Versed [®]	
			Alpha-hydroxytriazolam		Triazolam — Halcion [®]	
		25	Aminoclonazepam		Clonazepam — Klonopin [®]	
			Hydroxyethylflurazepam		Flurazepam — Dalmane [®]	
			Lorazepam		Lorazepam — Ativan [®]	
		50	Nordiazepam	Oxazepam	Chlordiazepoxide — Librium [®]	
				Oxazepam, Temazepam	Clorazepate — Tranxene [®]	
			Oxazepam		Diazepam — Valium [®]	
					Oxazepam — Librax [®] , Serax [®]	
				Nordiazepam	Clorazepate — Tranxene [®]	
					Chlordiazepoxide — Librium [®]	
			Temazepam	Nordiazepam, Temazepam	Diazepam — Valium [®]	
				Oxazepam	Temazepam — Restoril [®]	
				Oxazepam, Nordiazepam	Diazepam — Valium [®]	
Buprenorphine with Naloxone	5	2	Buprenorphine	Norbuprenorphine, Naloxone	Buprenorphine/Naloxone Combination ^b — Suboxone [®] , Zubsolv [®]	1–3 Days
				Norbuprenorphine	Buprenorphine — Belbuca [®] , Buprenex [®] , Butrans [®] , Sublocade [®] , Subutex [®]	
			Norbuprenorphine			
			Naloxone	Buprenorphine, Norbuprenorphine	Buprenorphine/Naloxone Combination — Suboxone [®] , Zubsolv [®]	

^e Depends upon drug usage patterns, drug/drug metabolite elimination, and test cutoff.

^f Presumptive analysis uses mass spectrometry method of analysis.

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Carisoprodol Metabolite		1000	Meprobamate		Carisoprodol — Equagesic®, Soma® Meprobamate — Equanil®	1–3 Days
Cocaine Metabolite	150	100	Benzoyllecgonine		Cocaine — Coke	1–3 Days
Eszopiclone		5	Eszopiclone		Eszopiclone — Lunesta®	1–3 Days
Fentanyl	0.5	0.5	Fentanyl Norfentanyl	Norfentanyl	Fentanyl — Abstral®, Actiq®, Duragesic®, Fentora®, Ionsys™, Sublimaze®	1–2 Days
Gabapentin		1000	Gabapentin		Gabapentin — Fanatrex®, Gralise®, Horizant®, Neurontin®	1–3 Days
Heroin Metabolite	10	10	6-Acetylmorphine		Heroin — Heroin	1 Day
Marijuana Metabolite	20	5	Marijuana Metabolite		Dronabinol — dronabinol, Marinol® Marijuana — pot, weed	1–3 Days Casual Use; >3 Days Chronic Use
MDMA/MDA	500	200	MDMA MDA	MDA	Ecstasy Sally	1–2 Days
Meperidine		100/100	Meperidine Normeperidine	Normeperidine	Meperidine — Demerol®	1–3 Days
Methadone Metabolite	100	100	Methadone EDDP	EDDP	Methadone — Dolophine®	1–3 Days
Methylphenidate		100	Ritalinic Acid		Methylphenidate — Concerta®, Ritalin®	1–3 Days
Mitragynine	50	2	Mitragynine		Kratom	1–3 Days

^e Depends upon drug usage patterns, drug/drug metabolite elimination, and test cutoff.

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Naltrexone		5	Naltrexone 6-beta-naltrexol	6-beta-naltrexol	Naltrexone — ReVia®, Vivitrol®	1–3 Days
Opiates ^g	100	50	Codeine	Morphine	Codeine — Acetaminophen w/Codeine, Phenergan®, Phenergan® w/Codeine, Tylenol® #3, Tylenol® #4, Tylenol® w/Codeine Poppy seed ingestion	1–3 Days
				Hydrocodone	Codeine minor metabolite	
			Morphine	Codeine	Morphine — Arymo™, AVINZA®, Embeda®, Kadian®, MorphaBond™, MS Contin®, Roxanol™; Heroin	
				Codeine	Codeine — Acetaminophen w/Codeine, Phenergan®, Phenergan® w/Codeine, Tylenol® #3, Tylenol® #4, Tylenol® w/Codeine Poppy seed ingestion	
			Hydrocodone	Hydromorphone	Morphine minor metabolite	
				Heroin Metabolite	Heroin metabolite	
			Hydrocodone	Hydromorphone, Norhydrocodone	Hydrocodone — Hycodan®, Hyslingla®, Lorcet®, Lortab®, Norco®, Vicodin®, Vicoprofen®, Zohydro®	
				Codeine, Morphine	Codeine minor metabolite	
			Hydromorphone	Hydrocodone, Norhydrocodone	Hydromorphone — Dilaudid™, Exalgo® Hydrocodone — Hycodan®, Hyslingla®, Lorcet®, Lortab®, Norco®, Vicodin®, Vicoprofen®, Zohydro®	
				Morphine	Morphine minor metabolite	
Oxycodone ^g	100	50	Noroxycodone	Oxycodone, Oxymorphone	Oxycodone — Endocet®, Magnacet®, OxyContin®, OxyFAST®, Percocet®, Percodan®, Roxicet®, Roxicodone®, RoxyBond™, Tylox®, Xtampza® Oxymorphone — Opana®	1–3 Days
			Oxycodone	Noroxycodone, Oxymorphone		
			Oxymorphone	Oxycodone, Noroxycodone		

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^g Expanded Opiates includes Oxycodone

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Phencyclidine	25	25	Phencyclidine		Phencyclidine — PCP	1–3 Days
Pregabalin		1000	Pregabalin		Pregabalin — Lyrica [®]	1–3 Days
Propoxyphene	300	200	Norpropoxyphene		Propoxyphene — Darvon [®] , Davocet [®] , Dolene [®] , Progesic [®] , Trycet [®]	1–3 Days
Synthetic Cannabinoids ^f	2	2	AB-CHMINACA M2		AB-CHMINACA	K2, Spice, Bliss, Blaze
			AB-FUBINACA M2		AB-FUBINACA	
			N-pentanoic acid			
			AB-PINACA		AB-PINACA	
			ADBICA N-pentanoic acid		ADBICA	
			ADB-PINACA		ADB-PINACA	
	0.2	0.2	AKB48 N-pentanoic acid		AKB48	
	2	2	BB-22 3-carboxyindole		BB-22	
	0.2	0.2	JWH-018 N-pentanoic acid		JWH-018	
			JWH-073 N-butanoic acid		JWH-073	
Synthetic Stimulants	2	2	PB-22 3-carboxyindole		PB-22	1–3 Days
	0.2	0.2	UR-144 N-pentanoic acid		UR-144	
	2	2	5-Fluoro-PB-22 3-carboxyindole		5-Fluoro-PB-22	
	50	50	Butylone		Butylone — Bk-MBDB	
			MDPV		MDPV — Bath salts, Ivory Wave, Vanilla Sky	
			Mephedrone		Mephedrone — 4-MMC, Meow Meow, M-CAT, Bounce	
			Methylone		Methylone — Bath salts	

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Tapentadol		50	Tapentadol Nortapentadol	Nortapentadol	Tapentadol — Nucynta®	1–3 Days
Tramadol		100	Tramadol Desmethyldramadol	Desmethyldramadol	Tramadol — Conzip™, Ryzolt™, Ultram®	1–3 Days
Tricyclic Antidepressants		100	Amitriptyline Nortriptyline	Nortriptyline	Amitriptyline — Elavil®, Endep® Nortriptyline — Aventyl®, Pamelor®	1–3 Days
Zolpidem		5	Zolpidem Zolpidem Metabolite	Zolpidem Metabolite	Zolpidem — Ambien®, Edluar®, Intermezzo®, Zolpimist®	1–3 Days

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Clinical Drug Monitoring Tests and Services

Healthcare providers have trusted Quest Diagnostics for clinical drug monitoring for years. Our reputation in clinical laboratory diagnostics is built on an unparalleled commitment to service, coupled with our industry leading, comprehensive testing portfolio.

You can rely on us for:

- A broad menu, including prescription drug medications, other controlled medications, and illicit drugs
- Enhanced sensitivity to better detect benzodiazepines and opioids
- Toxicology experts to help with results interpretation, test selection, and consultation
- Simple and intuitive clinician and patient result reports
- Quarterly Reports to compare medMATCH® rates of your practice to the Quest Diagnostics national database

We're committed to working with you to provide objective results and insight to support your clinical decisions.

Drug monitoring consultation

Our experts are available to assist with:

- **Drug monitoring menu, options, and services**—discuss test selection, sample requirements, and whether or not to choose medMATCH®
- **Drug monitoring results inquiries and interpretation**—discuss basic result interpretations and questions about adding additional substances to the test
- **Drug monitoring consultation scheduling**—schedule a call with appropriate experts on more complex questions



1.877.40.RXTOX (1.877.407.9869) | Monday-Friday, 8:00 AM–10:00 PM ET

QuestDrugMonitoring.com

Get the latest information, view our comprehensive Test Directory, and learn more about our Drug Monitoring offerings, including educational resources and insights from our team of toxicology experts. At Quest Diagnostics, we are committed to providing you results and insight to support your clinical decisions.

Test codes may vary by location. Please contact your local laboratory for more information.

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