



# PAIN HYB Methods Used

1

## IMMUNOASSAY

Barbiturates  
Carisoprodol  
Cocaine

Ethyl-glucuronide  
Marijuana metabolite  
Methadone

PCP  
Propoxyphene  
Tramadol

2

## SPECTROPHOTOMETRY

Creatinine

3

## MASS SPECTROMETRY

6-acetylmorphine  
7-aminoclonazepam  
Alpha-OH-alprazolam  
Alprazolam  
Amphetamine  
Buprenorphine  
Clonazepam  
Codeine  
Diazepam  
Fentanyl  
Hydrocodone  
Hydromorphone

Lorazepam  
MDA  
MDEA  
MDMA  
Meperidine metabolite  
Methamphetamine  
Methylphenidate  
Midazolam  
Morphine  
Norbuprenorphine  
Nordiazepam  
Norfentanyl

Norhydrocodone  
Noroxycodone  
Noroxymorphone  
Oxazepam  
Oxycodone  
Oxymorphone  
Phentermine  
Tapentadol  
Tapentadol-O-sulfate  
Temazepam  
Zolpidem

For more information, visit:

**[WWW.ARUPLAB.COM/PAIN-MANAGEMENT](http://WWW.ARUPLAB.COM/PAIN-MANAGEMENT)**

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# Reported Drugs and Metabolites

## BENZODIAZEPINES

Drug Name	Reported Drugs and Metabolites That Indicate Use*
Alprazolam	Alprazolam, Alpha-hydroxyalprazolam
Chlordiazepoxide	Nordiazepam, Oxazepam
Clorazepate	Nordiazepam, Oxazepam
Clonazepam	Clonazepam, 7-aminoclonazepam
Diazepam	Diazepam, Nordiazepam, Temazepam, Oxazepam
Lorazepam	Lorazepam
Midazolam	Midazolam
Oxazepam	Oxazepam
Temazepam	Temazepam, Oxazepam
Zolpidem	Zolpidem

\*Not all drugs or metabolites may be present for each patient.

## OPIOIDS

Drug Name	Reported Drugs and Metabolites That Indicate Use*
Buprenorphine	Buprenorphine, Norbuprenorphine
Codeine	Codeine, Morphine
Fentanyl	Fentanyl, Norfentanyl
Hydrocodone	Hydrocodone, Norhydrocodone, Hydromorphone
Hydromorphone	Hydromorphone
Meperidine	Meperidine metabolite (Normeperidine)
Morphine	Morphine, Hydromorphone
Oxycodone	Oxycodone, Noroxycodone, Oxymorphone, Noroxymorphone
Oxymorphone	Oxymorphone, Noroxymorphone
Tapentadol	Tapentadol, Tapentadol-O-sulfate

\*Not all drugs or metabolites may be present for each patient.

## STIMULANTS

Drug Name	Example Trade Name	Reported Drugs and Metabolites That Indicate Use
Amphetamine	Adderall	Amphetamine
Methylphenidate	Ritalin	Methylphenidate
Phentermine	Adipex-P	Phentermine

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# Reported Drugs and Metabolites

## ILLICITS

Drug Name	Reported Drugs and Metabolites That Indicate Use*
MDMA (Ecstasy)	MDMA, MDA
MDEA (Eve)	MDEA, MDA
MDA	MDA
Heroin	Morphine, 6-acetylmorphine <sup>†</sup> , Codeine
Marijuana	9-carboxy-tetrahydrocannabinol (detected by immunoassay)
Methamphetamine	Methamphetamine, Amphetamine

\*Not all drugs or metabolites may be present for each patient.

<sup>†</sup>Presence required to accurately identify heroin use.

## IMMUNOASSAYS

Drug Name	Reported Drugs and Metabolites That Indicate Use*
Barbiturates	Butalbital <sup>†</sup> , Amobarbital <sup>†</sup> , Pentobarbital <sup>†</sup> , Phenobarbital <sup>†</sup>
Carisoprodol	Carisoprodol <sup>†</sup> , Meprobamate <sup>†</sup>
Cocaine	Cocaine <sup>‡</sup> , Benzoyllecgonine <sup>†</sup>
Ethanol	Ethyl-glucuronide <sup>†</sup>
Methadone	Methadone <sup>†</sup> , EDDP <sup>‡</sup>
PCP	PCP <sup>†</sup>
Propoxyphene	Propoxyphene <sup>†</sup> , Norpropoxyphene <sup>†</sup>
Tramadol	Tramadol <sup>†</sup> , O-desmethyl-tramadol <sup>‡</sup> , N-desmethyl-tramadol <sup>‡</sup>

\*Listed compounds are not individually identified. Total absorbance for all detected compounds is used to report presence or absence.

<sup>†</sup>Detected by the immunoassay.

<sup>‡</sup>Minimal detection or not detected by the immunoassay.

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