

Patient: [REDACTED]  
 DOB: [REDACTED] Age: [REDACTED] Gender: [REDACTED]  
 Patient Identifiers: [REDACTED]  
 Visit Number (FIN): [REDACTED]

Client: [REDACTED]  
 Physician: [REDACTED]

ARUP Test Code: 2006621  
 Collection Date: 05/28/2017  
 Received in lab: 05/31/2017  
 Completion Date: 06/02/2017

**Patient Results**

	<b>This Report*</b>
<b>Collection Date</b>	<b>5/28/2017 5:14 AM</b>
Benzoyllecgonine	<b>Present</b>
Marijuana Metabolite	<b>Present</b>

\* For details, see report on following page.

**Interpretive Comments**

Methodology: Qualitative Liquid Chromatography/Tandem Mass Spectrometry/Enzyme-Linked Immunosorbent Assay Detection of drugs in umbilical cord tissue is intended to reflect maternal drug use during pregnancy. The pattern and frequency of drug(s) used by the mother cannot be determined by this test. A negative result does not exclude the possibility that a mother used drugs during pregnancy. Detection of drugs in umbilical cord tissue depends on extent of maternal drug use, as well as drug stability, unique characteristics of drug deposition in umbilical cord tissue, and the performance of the analytical method. Drugs administered during labor and delivery may be detected. Detection of drugs in umbilical cord tissue does not insinuate impairment and may not affect outcomes for the infant. Interpretive questions should be directed to the laboratory. Glucuronide metabolites are indicated as -G. For medical purposes only; not valid for forensic use unless testing was performed within Chain of Custody process.

For further information, consult [aruplab.com/pediatrics](http://aruplab.com/pediatrics).

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: [aruplab.com/CS](http://aruplab.com/CS)



Patient: [REDACTED]  
 ARUP Accession: 17-148-106398

# Drug Detection Panel, Umbilical Cord Tissue, Qualitative

Patient: [REDACTED] | Date of Birth: [REDACTED] | Gender: [REDACTED] | Physician: [REDACTED]  
 Patient Identifiers: [REDACTED] | Visit Number (FIN): [REDACTED]

Drug Analyte	Result	Cutoff	Notes
<b>OPIOIDS, UMBILICAL CORD</b>			
Buprenorphine	Not Detected	1 ng/g	eg, Buprenex; Subutex; Suboxone (with naloxone)
--Norbuprenorphine	Not Detected	0.5 ng/g	buprenorphine metabolite
--Buprenorphine-G	Not Detected	1 ng/g	buprenorphine metabolite
Codeine	Not Detected	0.5 ng/g	
Morphine	Not Detected	0.5 ng/g	also a metabolite of Codeine
6-Acetylmorphine	Not Detected	1 ng/g	heroin metabolite; morphine is expected
Hydrocodone	Not Detected	0.5 ng/g	also a minor metabolite of codeine; possible impurity of oxycodone
--Dihydrocodeine	Not Detected	1 ng/g	hydrocodone metabolite
--Norhydrocodone	Not Detected	1 ng/g	hydrocodone metabolite
Hydromorphone	Not Detected	0.5 ng/g	eg, Dilaudid; also a metabolite of hydrocodone, and a minor metabolite of morphine
Fentanyl	Not Detected	0.5 ng/g	
Meperidine	Not Detected	2 ng/g	eg, Demerol
Methadone	Not Detected	2 ng/g	
--EDDP	Not Detected	1 ng/g	methadone metabolite
Oxycodone	Not Detected	0.5 ng/g	eg, Oxycontin
--Noroxycodone	Not Detected	1 ng/g	oxycodone metabolite
Oxymorphone	Not Detected	0.5 ng/g	eg, Opana; also a metabolite of oxycodone
--Noroxymorphone	Not Detected	0.5 ng/g	oxymorphone metabolite; also potential metabolite of oxycodone
Naloxone	Not Detected	1 ng/g	opioid antagonist
Propoxyphene	Not Detected	1 ng/g	eg, Darvon
Tapentadol	Not Detected	2 ng/g	eg, Nucynta
Tramadol	Not Detected	2 ng/g	eg, Ultram; ConZip
--N-desmethyltramadol	Not Detected	2 ng/g	tramadol metabolite
--O-desmethyltramadol	Not Detected	2 ng/g	tramadol metabolite
<b>STIMULANTS, UMBILICAL CORD</b>			
Amphetamine	Not Detected	5 ng/g	eg, Vyvanse; Adderall; also a metabolite of methamphetamine; d- and l-isomers are not distinguished by this test
Methamphetamine	Not Detected	5 ng/g	d- and l- isomers are not distinguished by this test
MDMA - Ecstasy	Not Detected	5 ng/g	
Cocaine	Not Detected	0.5 ng/g	
--Benzoylecgonine	<b>Present</b>	0.5 ng/g	cocaine metabolite
--m-OH-Benzoylecgonine	Not Detected	1 ng/g	cocaine metabolite
--Cocaethylene	Not Detected	1 ng/g	cocaine metabolite formed in the presence of ethanol



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Drug Analyte	Result	Cutoff	Notes
Phentermine	Not Detected	8 ng/g	
<b>SEDATIVES-HYPNOTICS, UMBILICAL CORD</b>			
Alprazolam	Not Detected	0.5 ng/g	eg, Xanax
--Alpha-OH-Alprazolam	Not Detected	0.5 ng/g	alprazolam metabolite
Butalbital	Not Detected	25 ng/g	eg, Bupap (with acetaminophen); Fioricet (with acetaminophen and caffeine)
Clonazepam	Not Detected	1 ng/g	eg, Klonopin
--7-Aminoclonazepam	Not Detected	1 ng/g	clonazepam metabolite
Lorazepam	Not Detected	5 ng/g	eg, Ativan
Midazolam	Not Detected	1 ng/g	eg, Versed
--Alpha-OH-Midazolam	Not Detected	2 ng/g	midazolam metabolite
Diazepam	Not Detected	1 ng/g	eg, Valium
Nordiazepam	Not Detected	1 ng/g	metabolite of chlordiazepoxide (Librium), clorazepate (Tranxene), diazepam, halazepam (Alapryl), prazepam (Centrax) and others
Oxazepam	Not Detected	2 ng/g	eg, Serax; also metabolite of nordiazepam and temazepam
Temazepam	Not Detected	1 ng/g	eg, Restoril; also a metabolite of diazepam
Phenobarbital	Not Detected	75 ng/g	eg, Luminal; Donnatal (with atropine, hyoscyamine and scopolamine)
Zolpidem	Not Detected	0.5 ng/g	eg, Ambien
<b>PHENCYCLIDINE, UMBILICAL CORD</b>			
Phencyclidine- PCP	Not Detected	1 ng/g	phencyclidine
<b>OTHER IMMUNOASSAY</b>			
Marijuana Metabolite	<b>Present</b>	1 ng/g	11-nor-9-carboxy-tetrahydrocannabinol; does not distinguish between prescribed and illicit forms; positive results are presumptive and cannot be confirmed

## Notes

Marijuana Metabolite, Cord, Screen  
 Result is presumptive and not confirmed. Unconfirmed result may be useful for medical purposes, but does not meet forensic standards. Results should be used for medical purposes only.



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## Additional Information

### METHODOLOGIES USED

Qualitative enzyme immunoassay  
Qualitative liquid chromatography tandem mass spectrometry

### ABBREVIATIONS

MDMA - 3,4-methylenedioxy-N-methylamphetamine  
EDDP - 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine



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