

Timely detection  
of in utero  
drug exposure  
is critical for  
managing  
intoxication,  
withdrawal  
syndrome, and  
the long-term  
social and  
medical needs  
of exposed  
neonates.  
ARUP offers  
two newborn  
specimen types to  
support neonatal  
drug testing:  
Meconium and  
Umbilical cord.

## Newborn Drug Testing



testing at ARUP Laboratories



[www.aruplab.com](http://www.aruplab.com)

**ARUP LABORATORIES**

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keyword: Newborn Drug Testing

*A nonprofit enterprise of the University of  
Utah and its Department of Pathology*

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**High specificity**  
mass spectrometry  
technology



**Performed**  
7 days/week



**Professional  
consultation**  
available from  
ARUP's toxicology  
medical directors



**Enhanced report**  
available for umbilical  
cord testing

## MECONIUM

**ARUP TEST CODE 0092516**

Meconium is the traditional specimen used to detect and document maternal drug use during pregnancy in the last trimester of a full-term birth. ARUP's neonatal drug testing in meconium is a qualitative immunoassay screen for nine drug classes. Specimens testing positive for one or more drugs are reflexed to highly sensitive and specific mass spectrometry technology for confirmation.

### DRUGS AND DRUG METABOLITES REPORTED

#### OPIOIDS

buprenorphine  
norbuprenorphine  
methadone  
methadone metabolite (EDDP)  
heroin metabolite  
(6-acetylmorphine)  
morphine  
codeine  
hydromorphone

hydrocodone  
oxycodone  
oxymorphone

#### STIMULANTS

methamphetamine  
amphetamine  
MDA  
MDEA (Eve)  
MDMA (Ecstasy)  
cocaine

cocaine metabolites:  
benzoylecgonine  
m-hydroxybenzoylecgonine  
cocaethylene

#### SEDATIVES/HYPNOTICS

alprazolam  
a-hydroxyalprazolam  
butalbital  
clonazepam  
7-amino clonazepam

diazepam  
nordiazepam  
oxazepam  
temazepam  
lorazepam  
midazolam  
phenobarbital  
**OTHER**  
cannabis (THC) metabolite  
phencyclidine (PCP)

## UMBILICAL CORD TISSUE

**ARUP TEST CODE 2006621**

Umbilical cord tissue is a relatively new specimen to detect and document maternal drug use during pregnancy in the last trimester of a full-term birth. ARUP's neonatal drug testing in umbilical cord tissue is based on highly sensitive and specific qualitative liquid chromatography and tandem mass spectrometry (LC-MS/MS) for all analytes.

### DRUGS AND DRUG METABOLITES REPORTED

#### OPIOIDS

buprenorphine  
norbuprenorphine  
methadone  
methadone metabolite (EDDP)  
heroin metabolite  
(6-acetylmorphine)  
morphine  
codeine  
dihydrocodeine  
hydrocodone  
norhydrocodone  
hydromorphone  
oxycodone

noroxycodone  
oxymorphone  
noroxymorphone  
tramadol  
n-desmethyl tramadol  
o-desmethyl-tramadol  
tapentadol  
meperidine  
fentanyl  
propoxyphene  
naloxone  
**STIMULANTS**  
methamphetamine  
amphetamine

MDMA (Ecstasy)  
cocaine  
cocaine metabolites:  
benzoylecgonine  
m-hydroxybenzoylecgonine  
cocaethylene  
phentermine

#### SEDATIVES/HYPNOTICS

7-amino clonazepam  
a-hydroxyalprazolam  
a-hydroxymidazolam  
alprazolam  
butalbital  
clonazepam

diazepam  
lorazepam  
midazolam  
nordiazepam  
oxazepam  
phenobarbital  
temazepam  
zolpidem  
**OTHER**  
gabapentin  
phencyclidine (PCP)  
ethanol metabolite\*  
cannabis (THC) metabolite\*\*

\*ETHYL GLUCURONIDE, UMBILICAL CORD TISSUE

\*\*MARIJUANA METABOLITE, UMBILICAL CORD TISSUE

**ARUP TEST CODE 3000443**

**ARUP TEST CODE 3000256**