



# Perinatal Drug Testing Using Umbilical Cord Tissue

Maternal exposure to drugs during pregnancy puts a developing fetus at risk for adverse effects. These effects are often manifested and observed in the newborn child. Determination of *in utero* drug exposure can be an important part of case management.

Historically, newborn drug testing was performed using meconium. However, problems can exist with meconium—it may take days to pass, the newborn may not produce enough to test or, in some cases, the meconium is passed *in utero* making collection impossible. For these reasons, drug testing in umbilical cord offers a readily available specimen, ease of collection and faster results.

NMS Labs **9145UC Comprehensive Drug Screen, Umbilical Cord Tissue** is a qualitative forensic screen and confirmation that tests for 57 compounds in the following categories:

Amphetamines	Fentanyl/Metabolite
Acetyl Fentanyl	Meperidine/Metabolite
Barbiturates	Methadone/Metabolite
Benzodiazepines	Novel Psychoactive Substances
Buprenorphine/Metabolite	Opioids
Cannabinoids	Phencyclidine
Carisoprodol/Metabolite	Tapentadol
Cocaine/Metabolites	Tramadol
Dextro/Levo Methorphan	Zolpidem

All analytes that screen positive will automatically reflex to a confirmation.

Testing is performed using LC-MS/MS methodology. Setup days are Monday through Friday and turnaround time is 24 hours for negatives; 72 hours for positives.

## NMS LABS UMBILICAL CORD TISSUE TESTING

THE MOST COMPREHENSIVE  
UMBILICAL CORD TEST  
FOR DRUGS OF ABUSE

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## NMS LABS' UMBILICAL CORD DRUG TESTING CAN AID IN IDENTIFYING NEWBORNS EXPOSED TO SUBSTANCES OF ABUSE

### Specimen Collection and Shipping Details

**Step 1** Collect at least 6 inches of umbilical cord (approximately the length of an adult hand).



**Step 2** Drain and discard any blood.



**Step 3** Rinse the exterior of the cord segment with normal saline or sterile water.



**Step 4** Pat the cord dry.



**Step 5** Place specimen in the container provided in NMS Labs' kit, secure the lid, apply supplied tamper seal, and affix patient label.



**Step 6** Place container in specimen bag, fill out chain of custody and requisition form, and send to NMS Labs. **Ship with a cold pack.**



**Unacceptable Specimens:** Cords soaking in blood or other fluid. Formalin-fixed tissue. Decomposed tissue. Specimens received without a cold pack.

Visit [www.nmslabs.com/umbilical-cord-testing](http://www.nmslabs.com/umbilical-cord-testing) for resources, including requisition forms.

Customer Support: 866.522.2206 or [CSTIQ@nmslabs.com](mailto:CSTIQ@nmslabs.com)

