



ARUP Laboratories is one of the few laboratories in the nation to provide drugs of abuse umbilical cord testing.

ARUP LABORATORIES

Founded in 1984, ARUP Laboratories is a leading national reference laboratory and an enterprise of the University of Utah and its Department of Pathology. ARUP offers more than 3,000 tests and test combinations, ranging from routine screening tests to esoteric molecular and genetic assays. ARUP serves clients across the United States, including many of the nation's top university teaching hospitals and children's hospitals, as well as multihospital groups, major commercial laboratories, group purchasing organizations, military and other government facilities, and major clinics. In addition, ARUP is a worldwide leader in innovative laboratory research and development, led by the efforts of the ARUP Institute for Clinical and Experimental Pathology®.



A NONPROFIT ENTERPRISE OF THE UNIVERSITY OF
UTAH AND ITS DEPARTMENT OF PATHOLOGY

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DRUGS OF ABUSE UMBILICAL CORD TESTING



TIMELY DETECTION



Timely detection of in utero drug exposure is critical in effectively detecting and managing possible intoxication and withdrawal symptoms, as well as the long-term social and medical needs of, exposed neonates.

Meconium may take several days to pass or may pass in utero, making collection impossible. The umbilical cord is always available, and is thus a more efficient sample to collect, handle, and store for drug testing. Umbilical cord drug testing is a comprehensive, high-resolution targeted drug screen that provides faster turnaround times due to its sensitive and specific clinical preferment.

CANDIDATES FOR TESTING

Infants born to:

- High-risk mothers, including mothers with a history of drug use, prostitution, or sexually transmitted disease
- Mothers with little or no prenatal care
- Mothers with unexplained placental abruption or premature labor

Infants with:

- Unexplained neurological complications
- Unexpected intrauterine growth retardation
- Evidence of intoxication and/or drug withdrawal symptoms

FEATURES OF UMBILICAL CORD TESTING

- Doesn't require confirmation testing due to the high specificity and accuracy of time-of-flight (TOF) mass spectrometry.
- Detects natural and synthetic opiates, amphetamines, barbiturates, benzodiazepines, marijuana, and cocaine.
- Qualitatively detects nearly 60 drugs/drug metabolites in cord tissue.
- Aids in the detection of prenatal exposure to drugs (drugs administered during labor and delivery may also be detected).
- Generally provides faster return of results compared to meconium testing due to ease and consistency of collection, resulting in reduced DRG costs.

ORDERING INFORMATION

Test Name	Drug Detection Panel by High-Resolution Time-of-Flight Mass Spectrometry, Umbilical Cord Tissue
Test Code	2006621
Mnemonic	TOF SCR CD
Method	Qualitative liquid chromatography-time-of-flight mass spectrometry
Specimen Required	At least six inches of umbilical cord is required. Drain and discard any blood. Rinse the exterior of the cord segment with normal saline or an equivalent. Pat the specimen dry and place in standard urine cup. Transport refrigerated.
Performed	Sunday-Saturday