
Lab Dept: Chemistry

Test Name: MECONIUM DRUG SCREEN 13

General Information

Lab Order Codes: MDS13

Synonyms: MDS Multiple Drugs including fentanyl and suboxone with reflex confirmation; Meconium 13; Meconium Panel 13; Drug Screen 13 w/Conf,Meconium

CPT Codes: 80307 - Drug test(s), presumptive, any number of drug classes, qualitative, any number of devices or procedures by instrument chemistry analyzers and mass spectrometry either with or without chromatography

Test Includes: Screening for alcohol biomarkers (ETG/ETS); amphetamines; barbiturates; benzodiazepines; cocaine metabolite; fentanyl; phencyclidine (PCP); cannabinoids (THC metabolite); opiates; oxycodone; methadone; buprenorphine (Suboxone); tramadol. If an analyte is detected, confirmation on the same specimen will be performed at no charge. If confirmation is QNS on the original sample, a subsequent charge will be incurred if a new sample is submitted.

Logistics

Test Indications: To detect fetal exposure to controlled substances

Lab Testing Sections: Chemistry - Sendouts

Referred to: MedTox Laboratories (A Labcorp Specialty Lab) (MedTox Test Code: 809509)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3-6 days, allow additional time for confirmatory or reflex tests.

Special Instructions:

If the submitted sample is below the minimum weight (1 gm), the ordering provider needs to be notified to collect more sample. Keep pooled samples refrigerated and keep all pooled specimens in one container. If the specimen is short, specify which drugs should be prioritized. Best when performed 2 – 3 days after birth.

Nursing note: Disregard shipping or packaging instructions. Submit the labeled specimen to the laboratory in a ziptop biohazard bag. Adhesive sealed bags within the kit will be used by the laboratory before shipping.

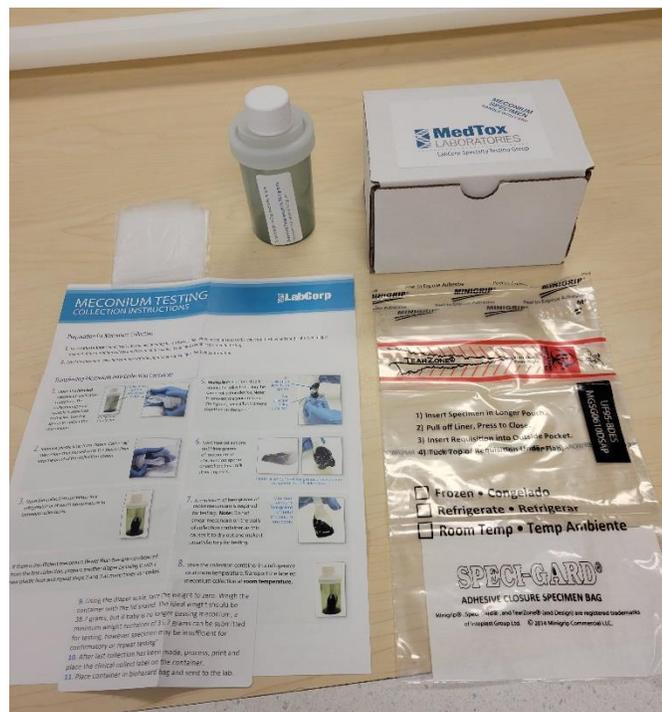
Specimen

Specimen Type:

Meconium

Container:

Meconium kit provided by MedTox. Obtain kit from lab.



Draw Volume:

5 grams meconium

Minimum: 2 grams meconium. 1 gram will be accepted but may not allow for the complete panel or confirmatory testing. Submission of less than the optimal volume results in an elevated reporting limit and inability to repeat analysis.

Nursing staff will monitor specimen collection and weight in the room and will submit to lab when enough volume is attained.

Processed Volume: Same as draw volume

Note: Submission of the minimum volume results in an elevated reporting limit and inability to repeat analysis.

Collection: Random sample or pooled random samples to obtain adequate meconium volume in container from MedTox collection kit.

Alternate: Other sterile collection containers may be submitted but the MedTox container with scoop is strongly preferred by the reference lab.



Special Processing: Lab Staff: Kit box can be discarded, store labeled sample vial in refrigerator immediately after collection and until shipment.

Ship refrigerated. Forward Promptly. Frozen samples are acceptable

Specimens are stable for three days ambient, longer if refrigerated or frozen (unspecified by reference lab).

Patient Preparation: Best when performed 2 – 3 days after birth

Sample Rejection: Inadequate specimen volume for testing; mislabeled or unlabeled specimens

Interpretive

Reference Range: Negative for each drug screened

Critical Values: N/A

Limitations: Initial presumptive testing by immunoassay at the following testing thresholds: Alcohol Biomarkers (ETG/ETS), 100 ng/gm; Amphetamines, 100 ng/gm; Barbiturates, 100 ng/gm; Benzodiazepines, 100 ng/gm; Buprenorphine, 5 ng/gm; Cocaine and metabolites, 50 ng/gm; Fentanyl and metabolite, 2 ng/gm; Methadone, 50 ng/gm; Opiates, 50 ng/gm; Oxycodones, 50 ng/gm; Phencyclidine (PCP), 25 ng/gm; Tetrahydrocannabinol (THC) metabolite, 25 ng/gm; Tramadol, 50 ng/gm; Presumptive positives confirmed by definitive liquid chromatography/tandem mass spectrometry (LC/MS-MS)

Methodology: Immunoassay(IA);Chromatography with Mass Spectrometry

References: [MedTox Laboratories](#) (March 2023)

Updates: 04/04/2023: Initial entry
3/19/2024: Clarified minimum acceptable specimen volume and collection container preference. Added a note for nursing staff to disregard the shipping and packaging instructions provided within the kit.