

Rapid Drug Screen Information

The assays **Drug Screen, Rapid Blood (DRG-LIM)** and **Drug Screen, Rapid Urine (DRUGS)** are available 24 hours a day, 7 days a week. These tests are not comprehensive; only the drugs listed in the table below are included.

Blood (quantitative)

Acetaminophen
Ethanol
Salicylate

Urine (qualitative screen only)

Amphetamine (AMP)
Barbiturates (BAR)
Benzodiazepines (BZO)
Buprenorphine (BUP)
Cannabinoids (THC)
Cocaine (COC)
Methadone (MTD)
Methamphetamine (MAMP)
Opiates (OPI)
Oxycodone (OXY)
Phencyclidine (PCP)
Tricyclic Antidepressants (TCA)

Drug Screen, Rapid Urine (DRUGS)

All assays on urine specimens are class-specific immunoassays. Positive results are not confirmed by an alternate method. The ordering physician should consider the results in light of the clinical picture and order confirmatory testing if necessary. Assuming there is no cross reactivity, a preliminary positive result for a specific drug indicates the sample may contain drug/drug metabolites near or above the cutoff level but does not indicate the level of intoxication, the urinary concentration of the drug or the route of administration.

Order the “Drug Screen, Rapid Urine” only when a rapid result is required to make decisions affecting patient care. When a “Drug Screen, Rapid Urine” is ordered, the laboratory will store the remaining specimen for up to one week should confirmatory testing be required.

Specimen Requirements

Drug Screen, Rapid Blood: 1 mL plasma or serum (PST, SST, RTT)

Drug Screen, Rapid Urine: 30 mL random urine

Information on Specificity and Cross-Reactivity of Individual Drugs in the Rapid Urine

Drug Screen is available in the PROFILE®-V MEDTOXScan® Drugs of Abuse Test System INSERT document at the following website: <https://www.medtoxdiagnostics.com/wp-content/uploads/102038-Package-Insert-PV-Test-System-1.pdf>

Table of Contents for website pdf file:

Page 2	Detection periods.
Page 4	Limitations of test procedure.
Page 4-7	Sensitivity, Accuracy, Precision data
Page 7-11	Cross Reactivity data

The concentration levels of major drug or metabolite for Marshfield's rapid urine drug screening device (PROFILE®-V MEDTOXScan® Drugs of Abuse Test System) that are expected to give a positive test result are as follows:

Result	Major drug/class or metabolite	
AMPQL	Amphetamine	500 ng/mL
BARQL	Barbiturates (Butalbital)	200 ng/mL
BZOQL	Benzodiazepines (Nordiazepine)	150 ng/mL
BUPRQL	Buprenorphine	10 ng/mL
COCQL	Cocaine Metabolite (Benzoyllecgonine)	150 ng/mL
MAMPQL	Methamphetamine	500 ng/mL
MTDQL	Methadone	200 ng/mL
OPIQL	Opiates (Morphine)	100 ng/mL
OXYCQL	Oxycodone	100 ng/mL
PCPQL	Phencyclidine	25 ng/mL
THCQL	11-nor-9-carboxy- Δ 9-THC	50 ng/mL
TCAQL	Tricyclic Antidepressants (Desipramine)	300 ng/mL

Drugs or urinary metabolites at concentration levels near the cutoff level shown in the far right column above would be expected to show positivity in this drug class. For example, most barbiturates will show positivity at levels in the 200-300 ng/mL range. Substances or metabolites with limited cross-reactivity would have to be present at significantly higher levels than the cutoff shown to generate a positive result.

Ethanol Assay Cross Reactivity

The assay is specific for ethanol and does not cross-react extensively with other alcohols of toxicological interest. If methanol, ethylene glycol, or isopropanol ingestion is suspected, contact the Pathologist On Call.

July 2024

Dr. Sarah Bissonnette/Laura Schulz