

Patient Name SAMPLEREP, FDS9R R	Patient ID SA00050839	Age 46	Gender M	Order # SA00050839
Ordering Phys				DOB 05/25/1966
Client Order # SA00050839	Account Information C7028846-DLMP ROCHESTER 3050 SUPERIOR DRIVE ROCHESTER, MN 55901			Report Notes
Collected 11/12/2012 13:00				
Printed 11/15/2012 09:42				

Test	Flag	Results	Unit	Reference Value	Perform Site*
Amphetamines, Confirmation		Positive		REPORTED 11/13/2012 17:38	Y006

REVISED RESULTS

Confirmed POSITIVE by LC-MS/MS for the following:

 Amphetamine = 52 ng/mL
 Methamphetamine = 124 ng/mL

Methamphetamine exists in the d- and l-isomeric forms. Illegal, street-manufactured methamphetamine is the d-isomer, or a racemic mixture of the d and l, with the d-isomer being present at 20-100%. The d-isomer also comes from the prescription drugs Desoxyn and Didrex. l-methamphetamine occurs in the Vicks inhaler, and as a metabolite of the Parkinsons drug Eldepryl. This test does not distinguish between d- and l-isomers. If isomer separation is desired, notify ARUP. An additional charge is made for this test.

Reportable range in tolerant abusers of methamphetamine: greater than 200 ng/mL. The therapeutic range of amphetamine in narcolepsy, obesity, and attention deficit disorder is 20-100 ng/mL. Reportable range in tolerant abusers of amphetamine: greater than 200 ng/mL. INTERPRETIVE INFORMATION: Drug Confirmation, Amphetamines, Ser/Pla

1. Drugs covered: amphetamine, methamphetamine, methylenedioxymethamphetamine (MDMA-Ecstasy), methylenedioxyethylamphetamine (MDEA-Eve), and methylenedioxyamphetamine (MDA).
2. Positive cutoff: 20 ng/mL.
3. For medical purposes only; not valid for forensic use.
4. The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate

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timing of specimen collection relative to drug administration, poor drug absorption, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.

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Barbiturates, Confirmation	Positive				Y00 6
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REVISED RESULTS
Confirmed POSITIVE by GC/MS for the following barbiturate(s):

Phenobarbital = 4138 ng/mL

Phenobarbital (Luminal) - Anticonvulsant range:
10,000-30,000 ng/mL.

INTERPRETIVE INFORMATION: Drug Confirmation, Barbiturates, Ser/Pla

1. Drugs Covered: butalbital, amobarbital, pentobarbital, secobarbital, and phenobarbital.
2. Positive cutoff: 50 ng/mL.
3. For medical purposes only; not valid for forensic use.
4. The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.

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Benzodiazepines, Confirmation	Positive				Y00 6
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REVISED RESULTS
Confirmed POSITIVE by LC-MS/MS for the following benzodiazepine(s):

Nordiazepam = 68 ng/mL

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Test	Flag	Results	Unit	Reference Value	Perform Site*
Alprazolam = 20 ng/mL Clonazepam = 24 ng/mL					
<p>Nordiazepam</p> <ul style="list-style-type: none"> - Therapeutic range: 100-1000 ng/mL. <p>Alprazolam (Xanax)</p> <ul style="list-style-type: none"> - Therapeutic range: 10-50 ng/mL at trough. - Potentially Toxic: > 75 ng/mL. <p>Clonazepam (Klonopin)</p> <ul style="list-style-type: none"> - Therapeutic range: 29-75 ng/mL. <p>Methodology: LC-MS/MS</p> <p>Drugs covered: alprazolam, alpha-hydroxyalprazolam, clonazepam, 7-aminoclonazepam, desalkylflurazepam, 2-hydroxyethylflurazepam, diazepam, lorazepam, midazolam, nordiazepam, oxazepam, temazepam, and alpha-hydroxytriazolam. Identification of specific drug(s) taken by specimen donor is problematic due to common metabolites, some of which are prescription drugs themselves.</p> <p>INTERPRETIVE INFORMATION: Drug Conf Benzodiazepines, Serum, Plasma</p> <p>Drugs covered: alprazolam, alpha-hydroxyalprazolam, clonazepam, 7-aminoclonazepam, desalkylflurazepam, diazepam, 2-hydroxyethylflurazepam, lorazepam, midazolam, nordiazepam, oxazepam, temazepam, and alpha-hydroxytriazolam.</p> <p>Identification of specific drug(s) taken by specimen donor is problematic due to common metabolites, some of which are prescription drugs themselves.</p> <p>Positive cutoff: 20 ng/mL</p> <p>The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.</p> <p>For medical purposes only; not valid for forensic use.</p>					

Cannabinoids, Confirmation	113	REPORTED 11/13/2012 17:38 ng/mL	Y00 6
REVISED RESULTS			

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INTERPRETIVE INFORMATION: Drug Confirmation, Cannabinoids, Ser/Pla

1. Drugs covered: 9-carboxy-THC.
2. Methodology: Liquid Chromatography-Tandem Mass Spectrometry.
3. Positive cutoff: 5 ng/mL.
4. For medical purposes only; not valid for forensic use.
5. The drug analyte detected in this assay, 9-carboxy THC, is a metabolite of delta-9-tetrahydrocannabinol (THC). Detection of 9-carboxy THC suggests use of, or exposure to, a product containing THC. This test cannot distinguish between prescribed or non-prescribed forms of THC, nor can it distinguish between active or passive use. The plasma half-life for 9-carboxy THC metabolite is estimated to range from 4-12 hours.

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Cocaine and Metabolites, Confirm	AB	Positive			Y006
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REVISED RESULTS
Confirmed POSITIVE by GC/MS for cocaine use by the presence of the following:

Benzoyllecgonine = 1433 ng/mL
INTERPRETIVE INFORMATION: Drug Conf, Cocaine/Metab, Ser/Pla/Bld

1. Drugs covered: cocaine, benzoylecgonine, m-hydroxybenzoylecgonine, and cocaethylene.
2. Positive cutoff: 20 ng/mL.
3. For medical purposes only; not valid for forensic use.
4. The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.

Drug Screen 9 Pnl, with Reflex				REPORTED 11/13/2012 15:24	Y006
Amphetamines, S/P		Positive			6

Confirmation testing is pending.

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Test	Flag	Results	Unit	Reference Value	Perform Site*
Methamphetamine, S/P		Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Barbiturates, S/P		Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Benzodiazepines, S/P		Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Cannabinoids, S/P		Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Cocaine, S/P	AB	Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Methadone, S/P		Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Opiates, S/P		Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Oxycodone, S/P		Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006
Phencyclidine, S/P	AB	Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards. Positive			Y006

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Test	Flag	Results	Unit	Reference Value	Perform Site*
Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards.					
Propoxyphene, S/P		Positive			Y006
Confirmation testing is pending. Unconfirmed positive may be useful for medical purposes, but does not meet forensic standards.					
Drug Screen Comments, S/P		See Note			Y006
INTERPRETIVE INFORMATION: Drug Screen 9 Panel, Serum or Plasma - Immunoassay Screen with Reflex to Mass Spectrometry Confirmation/Quantitation					
1. Methodology: Qualitative Immunoassay Screen					
2. Drugs Covered and Cutoff Concentrations					
Drugs/Drug Classes		Screen			
Cutoff					
Amphetamines		30 ng/mL			
Methamphetamine		30 ng/mL			
Barbiturates		75 ng/mL			
Benzodiazepines		75 ng/mL			
Cannabinoids		30 ng/mL			
Cocaine		30 ng/mL			
Methadone		40 ng/mL			
Opiates		30 ng/mL			
Oxycodone		30 ng/mL			
Phencyclidine		15 ng/mL			
Propoxyphene		75 ng/mL			
3. Drugs/Drug classes reported as "Positive" are automatically reflexed to mass spectrometry confirmation/quantitation testing. An immunoassay unconfirmed positive screen result may be useful for medical purposes but does not meet forensic standards.					
4. The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug					

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administration, poor drug absorption, or limitations of testing. The concentration at which the screening test can detect a drug or metabolite varies within a drug class. Specimens for which drugs or drug classes are detected by the screen are automatically reflexed to a second, more specific technology (mass spectrometry). The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.

5. For medical purposes only; not valid for forensic use.

Methadone and Metabolite Confirm			REPORTED 11/13/2012 17:38	
Methadone	679		ng/mL	Y006
INTERPRETIVE INFORMATION: Methadone and Metabolite - Confirmation/Quantitation - Serum				
or Plasma				
Methodology: LC-MS/MS				
Drugs covered: Methadone and EDDP				
Positive cutoff: 10 ng/mL				
For medical purposes only; not valid for forensic use.				
The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.				
EDDP	197		ng/mL	Y006

Opiate and Metabolites Confirm			REPORTED 11/13/2012 17:38	
Hydrocodone, Confirmation	230		ng/mL	Y006
Hydrocodone may arise from hydrocodone-containing drugs or as a metabolite of codeine. Hydrocodone is metabolized to hydromorphone.				

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Test	Flag	Results	Unit	Reference Value	Perform Site*
Hydromorphone, Confirmation		<2	ng/mL		Y00 6
Codeine, Confirmation		63	ng/mL		Y00 6
Codeine is not a recognized metabolite of other opiates and its presence usually indicates use of a codeine-containing drug. Codeine is metabolized to morphine and hydrocodone.					
Morphine, Confirmation		<2	ng/mL		Y00 6
6_AM, Confirmation		<2	ng/mL		Y00 6
Oxycodone, Confirmation		450	ng/mL		Y00 6
Oxycodone is not a recognized metabolite of other opiates and its presence indicates use of an oxycodone-containing drug. Oxycodone is metabolized to oxymorphone.					
Oxymorphone, Confirmation		<2	ng/mL		Y00 6
Opiates Interpretation		Positive			Y00 6
INTERPRETIVE INFORMATION: Opiates - Confirmation/Quantitation, Serum/Plasma					
Methodology: LC-MS/MS					
Drugs covered: codeine, morphine, 6-acetylmorphine, hydrocodone, hydromorphone, oxycodone and oxymorphone. All drugs covered are the non-glucuronidated (free) form.					
Positive cutoff: 2 ng/mL					
For medical purposes only; not valid for forensic use.					
The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported as positive. A very small amount of an unexpected drug analyte in the presence of a large amount of an expected drug analyte may reflect pharmaceutical impurity. Interpretive questions should be directed to the laboratory.					

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Phencyclidine, Confirmation	AB	Positive		REPORTED 11/13/2012 17:38	Y00 6
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REVISED RESULTS
Confirmed POSITIVE by GC/MS for phencyclidine.
Phencyclidine = 135 ng/mL
INTERPRETIVE INFORMATION: Drug Conf, Phencyclidine, Ser/Pla

1. Drugs covered: phencyclidine (PCP).
2. Positive cutoff: 10 ng/mL.
3. For medical purposes only; not valid for forensic use.
4. The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.

Propoxyphene/Metab, Confirmation		Positive		REPORTED 11/13/2012 17:38	Y00 6
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REVISED RESULTS
Confirmed POSITIVE by LC-MS/MS for propoxyphene (Darvon use) by the presence of the following:

Propoxyphene = 1007 ng/mL
Norpropoxyphene (qualitative result only)
INTERPRETIVE INFORMATION: Drug Conf, Propoxyphene/Metab, Ser/Pla

1. Drugs covered: propoxyphene and metabolite (norpropoxyphene-qualitative only).
2. Positive cutoff: 10 ng/mL.
3. For medical purposes only; not valid for forensic use.
4. The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported

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as positive. Interpretive questions should be directed to the laboratory.

* Performing Site:

Y006	ARUP Laboratories 500 Chipeta Way Salt Lake City, UT 84108	Lab Director:
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