

**Laboratory Order**  
Client: Dominion Diagnostics  
Patient Information:  
**DOE Samm P**  
Birth Date:  
Gender:  
ID:  
Collected: 07/21/13  
Received: 07/22/13-15:05

**Account Information:**  
Account: 4070  
Location: SAMM PRN  
Clinician:  
Collector:  
Requisition: 0087067  
Fax: (401) 667-0818

**Tests performed:**  
1.Pain Profile by EIA (P12)  
2.Cocaine Metabolite Profile by LC/MS/MS (P68)  
3.Opiates Profile by LC/MS/MS (P124)  
4.Oxycodone Profile by LC/MS/MS (P130)

Accession: 3070087067

<b>Laboratory Analysis:</b>	[i] Analyte (Methodology)	Flag	Result	Creatinine Adjusted Value	LOQ/ Normal Range	Units	Clinical Note	
<b>Drug Tests</b>	<b>Amphetamines</b>							
	Amphetamines (EIA)	Not detected			1000	ng/mL		
	<b>Barbiturates</b>							
	Barbiturates (EIA)	Not detected			300	ng/mL		
	<b>Benzodiazepines</b>							
	Benzodiazepines (EIA)	Not detected			300	ng/mL		
	<b>Cannabinoids</b>							
	THC (Cannabinoids) (EIA)	Not detected			50	ng/mL		
	<b>Cocaine</b>							
	✓ COCAINE (EIA)	DETECTED		775	1722	150	ng/mL	
	✓ BENZOYLECGONINE (LCMSMS)		DETECTED			30	ng/mL	Confirmation test
	<b>Ethanol</b>							
	Ethanol (EA)	Not detected				50	mg/dL	
	<b>Opioids</b>							
	Methadone Metabolite (EIA)	Not detected				100	ng/mL	
	Methadone (EIA)	Not detected				250	ng/mL	
	✓ OPIATES (EIA)	DETECTED		301	669	300	ng/mL	
	Codeine (LCMSMS)	Not detected				25	ng/mL	Confirmation test
	✓ HYDROCODONE (LCMSMS)	DETECTED		97		25	ng/mL	Confirmation test
	Hydromorphone (LCMSMS)	Not detected				25	ng/mL	Confirmation test
Morphine (LCMSMS)	Not detected				25	ng/mL	Confirmation test	
✓ OXYCODONE/OXYMORPHONE (EIA)	DETECTED				100	ng/mL		
✓ OXYCODONE (LCMSMS)	DETECTED		1984		25	ng/mL	Confirmation test	
✓ OXYMORPHONE (LCMSMS)	DETECTED		26		25	ng/mL	Confirmation test	
Propoxyphene (EIA)	Not detected				150	ng/mL		
<b>Biological Markers</b>	Creatinine		45.0		20.0 -400.0	mg/dL		
	pH		6.5		4.5 -9.0			
	Specific Gravity		1.030		1.003-1.035			
<b>Validity</b>	Oxidants	Not detected			200	ug/mL		

**Comments:**  
- Results unconfirmed unless otherwise indicated.  
- Creatinine adjusted values are for clinical pharmacokinetic comparison only  
  
- ALL TESTING CERTIFIED BY DJH  
- Laboratory Director: Charlene Johnson, PhD

**Notations:**  
✓ Indicates analyte detected  
[i] Icon

**Abbreviations**  
- EA: Enzyme Assay  
- EIA: Enzyme Immunoassay  
- HPLC: High Performance Liquid Chromatography  
- GC: Gas Chromatography  
- GCMS: Gas Chromatography/Mass Spectrometry  
- LCMSMS: Liquid Chromatography Tandem Mass Spectrometry  
- LOQ: Limits of Quantification  
- MSMS: Tandem Mass Spectrometry

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Maintenance medications reported: OXYCONTIN (Oxycodone)

PRN medications reported: Diazepam, VICODIN (Hydrocodone)



PRESCRIBED MEDICATION	MAINTENANCE		DETECTED ANALYTE (Methodology)	RESULT ng/mL	EXPECTED	NOT EXPECTED	ALERT	COMMENTS
		PRN						
<b>BENZODIAZEPINES</b>								
Diazepam		✓					!	PRN MEDICATION Benzodiazepines by EIA not detected. See Pharmacist's Notes [a]
<b>COCAINE</b>								
			Benzoylcegonine (LCMSMS)	>30		▲		NOT EXPECTED RESULT Cocaine metabolite (benzoylcegonine) detected by LCMSMS. See Pharmacist's Notes [b]
<b>OPIOIDS</b>								
Oxycodone	✓		Oxycodone (LCMSMS)	1984	●			
			Oxymorphone (LCMSMS)	26	●			Oxymorphone is a metabolite of oxycodone and a medication available by prescription.(1)
Hydrocodone		✓	Hydrocodone (LCMSMS)	97	●			

**CLINICAL NOTES**

**PHARMACIST'S NOTES:**

- [a] Benzodiazepines can be detected in the urine, on average, 2 to 7 days after the last dose. Exceptions include the metabolites of diazepam and chlordiazepoxide, which can be detected up to 30 days. (1,2)
- [b] Therapeutic uses of cocaine include ophthalmic, otolaryngologic, and trauma procedures. Cocaine metabolite (benzoylcegonine) can be detected in the urine, on average, 2 to 3 days after use, but can extend up to 7 days with heavy or chronic use. (1,2,3,4)

1. Baselt RC. Disposition of Toxic Drugs and Chemicals in Man. 7thed., Biomedical Publications, Foster City 2004.
2. Guide to Abused Drugs, Abbott Diagnostics 97-9458/15 October 1993.
3. Burke WM, Ravi NV, Dhopes V, Vandegriff, B, Maany I. Prolonged Presence of Metabolite in Urine After Compulsive Cocaine Use. J Clin Psychiatry. 1990 Apr;51(4):145-8.
4. Shults T. Medical Review Officer Handbook, 9th ed., Quadrangle Research LLC, Research Triangle Park 2009.

For more information please contact Dominion's Clinical Services Department at 800-511-8492.

Scientifically Accurate Medication Monitoring (SAMM)® utilizes a prescribed medication list, documented pharmaceutical and pharmacokinetic data, and state-of-the-art diagnostic testing to augment pharmacotherapy. The information provided should be combined with clinical consideration and professional judgment. The list of prescribed medications has not been verified by Dominion Diagnostics, and is not intended to replace the patient's official medical records.

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