NMS Labs
200 Welsh Road, Horsham, PA 19044-2208
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e-mail: nms@nmslabs.com
Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director

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Demo Report

Report Issued 02/26/2019 09:49
Last Report Issued 02/26/2019 09:49

88888
Clinical Example Report
Attn: IT Department
200 Welsh Road
Horsham, PA 19044-2208

Patient Name 8052TI-POS
Patient ID 8052TI-POS
Chain 19000381
Age Not Given **DOB** Not Given
Gender Not Given
Workorder 19000381

Received 02/26/2019 08:26

Sample ID 19000381-001
Matrix Tissue
Patient Name 8052TI-POS
Patient ID 8052TI-POS
Container Type Clear vial

Collect Dt/Tm Not Given
Source Tissue

Approx Vol/Weight Not Given

Receipt Notes None Entered

Tissue specimen required homogenization: 19000381-001

No testing performed on this sample.

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Sample ID 19000381-002
Matrix Tissue
Patient Name 8052TI-POS
Patient ID 8052TI-POS
Container Type Clear vial

Collect Dt/Tm Not Given
Source Tissue

Approx Vol/Weight Not Given

Receipt Notes None Entered

NMS Labs generated homogenized Tissue sample: 19000381-002

Analysis and Comments	Result	Units	Reporting Limit	Notes
8052TI Postmortem, Expanded, Tissue (Forensic)				
Analysis by Enzyme-Linked Immunosorbent Assay (ELISA)				
Opiates	See Comment	ng/g	80	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Cocaine / Metabolites	See Comment	ng/g	80	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Benzodiazepines	See Comment	ng/g	400	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Cannabinoids	See Comment	ng/g	40	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Oxycodone / Oxymorphone	See Comment	ng/g	40	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Buprenorphine / Metabolite	See Comment	ng/g	2.0	
Synonym(s): Suboxone®; Subutex®; Temgesic®; Buprenex®				
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Analysis by Headspace Gas Chromatography (GC)				
Ethanol	340	mg/100 g	40	
Synonym(s): Ethyl Alcohol				

Results for sample 19000381-002 are continued on next page

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Sample ID 19000381-002
Matrix Tissue
Patient Name 8052TI-POS
Patient ID 8052TI-POS

Collect Dt/Tm Not Given
Source Tissue

Analysis and Comments	Result	Units	Reporting Limit	Notes
Ethyl alcohol (ethanol, drinking alcohol) is a central nervous system depressant and can cause effects such as impaired judgment, reduced alertness and impaired muscular coordination. Ethanol can also be a product of decomposition or degradation of biological samples.				
Methanol	340	mg/100 g	20	
Synonym(s): Methyl Alcohol				
Methanol is contained in paints, cleaners, windshield washer fluid, 'canned heat', and other household products. It may be consumed for its intoxicating properties which are similar to ethanol; however it is much more toxic. In addition to central nervous system depression with its associated slowing of reaction time, lethargy and confusion, methanol can cause blindness due to its toxic metabolites.				
Isopropanol	340	mg/100 g	20	
Synonym(s): Isopropyl Alcohol				
Isopropanol is a common industrial and laboratory chemical that is available as a 70% aqueous solution in 'Rubbing Alcohol'. Isopropanol may be consumed for its intoxicating effects. Isopropanol produces effects in man similar to those produced by ethanol, including impairment of cognitive, perceptual and psychomotor capabilities presenting as decrements in alertness, judgment, perception, coordination, response time and sense of care and caution. As a central nervous system depressant, isopropanol has about two times the potency of ethanol; therefore, while the effects produced are similar, impairment caused by isopropyl alcohol will occur at blood concentrations substantially lower than those of ethanol. Isopropyl alcohol is metabolized to acetone, however acetone produced in the body as a result of uncontrolled diabetes can also be converted to isopropanol.				
Acetone	340	mg/100 g	20	

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Sample ID 19000381-002
Matrix Tissue
Patient Name 8052TI-POS
Patient ID 8052TI-POS

Collect Dt/Tm Not Given
Source Tissue

Analysis and Comments	Result	Units	Reporting Limit	Notes
Acetone is a solvent used for chemicals, paints, etc. It is also a product of diabetic- and fasting-induced ketoacidosis as well as a metabolite following isopropanol ingestion. In high concentrations, acetone can have CNS-depressing effects. Symptoms include lethargy, ataxia, headache, nausea and lightheadedness. Stupor and coma appear in severe cases. Acetone produced in the body as a result of uncontrolled diabetes can also be converted to isopropanol.				
Analysis by Colorimetry (C)				
Salicylates	See Comment	mcg/g	800	
Comment: Based on this screening result, confirmation testing was performed. Refer to the confirmation test result(s).				
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)				
Other Findings	None Found			
Comment: The following is a general list of compound classes included in the Gas Chromatographic screen. The detection of any particular compound is concentration-dependent. Please note that not all known compounds included in each specified class or heading are included. Some specific compounds outside these classes are also included. For a detailed list of all compounds and reporting limits included in this screen, please contact NMS Labs.				
Amphetamines, Analgesics (opioid and non-opioid), Anorectics, Antiarrhythmics, Anticholinergic Agents, Anticonvulsant Agents, Antidepressants, Antiemetic Agents, Antihistamines, Antiparkinsonian Agents, Antipsychotic Agents, Antitussive Agents, Antiviral Agents, Calcium Channel Blocking Agents, Cardiovascular Agents (non-digitalis), Local Anesthetics Agents, Muscle Relaxants and Stimulants (Amphetamine-like and others).				
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)				
N-Acetylprocainamide	Positive	ng/g	4000	
Synonym(s): NAPA				

Results for sample 19000381-002 are continued on next page

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Matrix Tissue
Patient Name 8052TI-POS
Patient ID 8052TI-POS

Collect Dt/Tm Not Given
Source Tissue

Analysis and Comments	Result	Units	Reporting Limit	Notes
N-acetylprocainamide is an antiarrhythmic drug and an active metabolite of procainamide. The reported qualitative result for this substance was based upon a single analysis only. If confirmation testing is required please contact the laboratory.				
Procainamide	Positive	mcg/g	4.0	
Synonym(s): Procan® SR				
Other Findings	None Found			
Comment: Anesthetics, Anticoagulant Agents, Antifungal Agents, Antihypertensive Agents, Anxiolytics (Benzodiazepine and others), Hypnosedatives (Barbiturates, Non-Benzodiazepine Hypnotics, and others) and Non-Steroidal Anti-Inflammatory Agents (excluding Salicylate).				
50001TI Salicylate Confirmation, Tissue				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Salicylate	200	mcg/g	20	
No reference data available.				
50012TI Benzodiazepines Confirmation, Tissue				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Diazepam	200	ng/g	80	
Synonym(s): Valium®				
Nordiazepam	200	ng/g	80	
Oxazepam	200	ng/g	80	
Synonym(s): Serax®				
Temazepam	200	ng/g	80	
Synonym(s): Normison®; Restoril®				
Clobazam	200	ng/g	80	
Synonym(s): Frisium®; Urbanyl®				
Chlordiazepoxide	200	ng/g	80	
Synonym(s): Librium®				

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Matrix Tissue
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Collect Dt/Tm Not Given
Source Tissue

Analysis and Comments	Result	Units	Reporting Limit	Notes
Lorazepam Synonym(s): Ativan®	200	ng/g	20	
Clonazepam Synonym(s): Klonopin®	200	ng/g	8.0	
7-Amino Clonazepam Synonym(s): Clonazepam Metabolite	200	ng/g	20	
Alprazolam Synonym(s): Xanax®	200	ng/g	20	
Alpha-Hydroxyalprazolam Synonym(s): Alprazolam Metabolite	200	ng/g	20	
Midazolam Synonym(s): Versed®	200	ng/g	20	
Triazolam Synonym(s): Halcion®	200	ng/g	8.0	
Hydroxytriazolam Synonym(s): Triazolam Metabolite	200	ng/g	20	
Hydroxyethylflurazepam Synonym(s): Flurazepam Metabolite	200	ng/g	20	
Desalkylflurazepam Synonym(s): Flurazepam Metabolite	200	ng/g	20	
Flurazepam Synonym(s): Dalmane®	200	ng/g	8.0	
Estazolam Synonym(s): ProSom®	200	ng/g	20	

No reference data available.

50013TI Cannabinoids Confirmation, Tissue

Analysis by High Performance Liquid Chromatography/
Tandem Mass Spectrometry (LC-MS/MS)

11-Hydroxy Delta-9 THC Synonym(s): Active Metabolite	200	ng/g	4.0	

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Matrix Tissue
Patient Name 8052TI-POS
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Collect Dt/Tm Not Given
Source Tissue

Analysis and Comments	Result	Units	Reporting Limit	Notes
Delta-9 Carboxy THC	200	ng/g	20	
Synonym(s): Inactive Metabolite				
Delta-9 THC	200	ng/g	2.0	
Synonym(s): Active Ingredient of Marijuana				
50014TI Cocaine and Metabolites Confirmation, Tissue				
Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)				
Cocaine	200	ng/g	80	
Cocaethylene	200	ng/g	80	
Synonym(s): Cocaine/Ethanol By-Product				
Benzoylecgonine	200	ng/g	200	
Synonym(s): Cocaine Degradation Product				
50016TI Opiates - Total (Conjugated/Unconjugated) Confirmation, Tissue				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Dihydrocodeine / Hydrocodol - Total	1000	ng/g	100	
Codeine - Total	1000	ng/g	100	
Morphine - Total	1000	ng/g	100	
Hydrocodone - Total	1000	ng/g	100	
Synonym(s): Dicodid®				
Hydromorphone - Total	1000	ng/g	20	
Synonym(s): Dilaudid®; Hydrocodone Metabolite				
Oxycodone - Total	1000	ng/g	100	
Synonym(s): OxyContin®; Roxicodone®				
Oxymorphone - Total	1000	ng/g	20	
Synonym(s): Numorphan®; Opana®; Oxycodone Metabolite				

No reference data available.

Results for sample 19000381-002 are continued on next page

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Matrix Tissue
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Collect Dt/Tm Not Given
Source Tissue

Analysis and Comments	Result	Units	Reporting Limit	Notes
52028TI Dicyclomine Confirmation, Tissue				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Dicyclomine	1000	ng/g	20	
Synonym(s): Bentyl®				
No reference data available.				
52060TI Levetiracetam Confirmation, Tissue				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Levetiracetam	2000	mcg/g	4.0	
Synonym(s): Keppra®				
This test is not chiral specific. Levetiracetam cannot be distinguished from its inactive isomer etiracetam.				
52076TI Methocarbamol Confirmation, Tissue				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Methocarbamol	200	mcg/g	8.0	
Synonym(s): Robaxin®				
No reference data available.				
52135TI Xylazine Confirmation, Tissue				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Xylazine	1000	ng/g	100	
Synonym(s): Rompun®				
No reference data available.				
52167TI Buprenorphine and Metabolite - Total (Conjugated/Unconjugated) Confirmation, Tissue				

Results for sample 19000381-002 are continued on next page

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Sample ID 19000381-002
Matrix Tissue
Patient Name 8052TI-POS
Patient ID 8052TI-POS

Collect Dt/Tm Not Given
Source Tissue

Analysis and Comments	Result	Units	Reporting Limit	Notes
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
Buprenorphine - Total	1000	ng/g	10	
Synonym(s): Buprenex®				
The reported result represents the total of free and conjugated buprenorphine.				
Norbuprenorphine - Total	1000	ng/g	10	
Synonym(s): Buprenorphine Metabolite				
Buprenorphine is metabolized in the liver by N-dealkylation to norbuprenorphine and both buprenorphine and norbuprenorphine undergo glucuronide conjugation. The reported result represents the total of free and conjugated norbuprenorphine.				
52250TI Alcohols and Acetone Confirmation, Tissue				
Analysis by Headspace Gas Chromatography (GC)				
Ethanol	Confirmed	mg/100 g	40	
Synonym(s): Ethyl Alcohol; Metabolite of Ethyl Acetate				
Methanol	Confirmed	mg/100 g	20	
Synonym(s): Methyl Alcohol				
Isopropanol	Confirmed	mg/100 g	20	
Synonym(s): Isopropyl Alcohol				
Acetone	Confirmed	mg/100 g	20	