



NMS Labs

CONFIDENTIAL

200 Welsh Road, Horsham, PA 19044-2208
Phone: (215) 657-4900 Fax: (215) 657-2972
e-mail: nms@nmslabs.com

Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director

Demo Report

Report Issued 04/01/2019 09:01
Last Report Issued 04/01/2019 09:01

88888
Clinical Example Report
Attn: Example Reports
200 Welsh Road
Horsham, PA 19044

Patient Name 6303B-POS
Patient ID 6303B-POS
Chain 19000162
Age Not Given **DOB** Not Given
Gender Not Given
Workorder 19000162
Received 01/17/2019 09:07

Disclaimer: Specimens for elemental testing should be collected in certified metal-free containers. Elevated results for elemental testing may be caused by environmental contamination at the time of specimen collection and should be interpreted accordingly. It is recommended that unexpected elevated results be verified by testing another specimen.

Sample ID 19000162-001 **Collect Dt/Tm** Not Given
Matrix Blood **Source** Not Given
Patient Name 6303B-POS
Patient ID 6303B-POS
Container Type Clear vial **Approx Vol/Weight** Not Given

Receipt Notes Not light protected as required

Analysis and Comments	Result	Units	Reporting Limit	Notes
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6303B Firefighter Core Baseline Profile, Blood

Sample Receipt condition inappropriate for test code:
[Not light protected as required]

Analysis by Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)

Lead	0.80	mcg/dL	0.50	
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The U.S. Centers for Disease Control and Prevention (CDC) reference value based on the 97.5th percentile of the blood lead level distribution in U.S. children aged 1-5 years is 5 mcg/dL.

The U.S. Centers for Disease Control and Prevention (CDC) blood lead reference level for adults is less than 5 mcg/dL.

Results for sample 19000162-001 are continued on next page



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Matrix Blood
Patient Name 6303B-POS
Patient ID 6303B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>Refer to OSHA's website for workplace information.</p> <p>Various states require that levels above certain cutoffs must be reported to the state in which the patient resides. Please contact NMS Labs if you need assistance in supplying your state with the required information.</p> <p>Analysis by Hematofluorometry (H)</p>				
ZPP	125	mcmol/mol heme	0	
<p>Normal range for Zinc Protoporphyrin (ZPP) is 30 – 80 mcmol/mol heme.</p>				
ZPP (OSHA Converted Units)	68	mcg/dL	0	
<p>This result is converted from mcmol/mol heme assuming a hematocrit of 42% for adults. The conversion factor is mcmol/mol heme x 0.544 = mcg/dL. OSHA occupational threshold is 100 mcg/dL blood.</p>				
<p>Analysis by Headspace Gas Chromatography (GC)</p>				
Benzene	50	mcg/mL	0.050	
<p>Following exposure to 25 ppm in air for 2 hours: Approximately 0.2 mcg/mL.</p>				
Ethylbenzene	50	mcg/mL	0.10	
<p>Ethylbenzene is used as a commercial solvent, fuel additive and chemical intermediate in the production of styrene. In the U.S. population, blood concentrations in non-occupationally exposed individuals are generally less than 0.001 mcg/mL.</p> <p>Exposure to this compound generally occurs through the pulmonary route. At air concentrations of 1000 ppm, the compound causes irritation to the eyes and nose. Higher concentrations may result in dizziness and central nervous system depression.</p>				
Styrene	50	mcg/mL	0.10	
<p>Synonym(s): Vinylbenzene</p>				
Toluene	50	mcg/mL	0.30	

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Matrix Blood
Patient Name 6303B-POS
Patient ID 6303B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>Following exposure to 100 ppm Toluene in air for 2 hours: approximately 0.9 mcg/mL. Occupational exposure limit: 1.0 mcg Toluene/mL blood in an end of shift venous blood specimen.</p>				
Xylenes (o,m,p)	50	mcg/mL	0.30	
<p>Following daily exposure to 100 ppm total Xylenes: Approximately 1 mcg/mL.</p>				
n-Heptane	50	mcg/mL	2.0	
n-Hexane	50	mcg/mL	2.0	
Methylpentanes (2- and 3- Isomers)	50	mcg/mL	2.0	
Pentane	50	mcg/mL	2.0	
n-Butanol	50	mcg/mL	2.0	
Synonym(s): Butyl Alcohol				
Ethanol	50	mg/dL	5.0	
Synonym(s): Ethyl Alcohol; Metabolite of Ethyl Acetate				
<p>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 as well as a metabolite of ethyl acetate.</p>				
Isopropanol	50	mg/dL	1.0	
Synonym(s): Isopropyl Alcohol				
<p>Three workers exposed to 191 - 200 ppm isopropanol in air had blood isopropanol concentrations <1 mg/dL; acetone levels were 4 - 16 mg/dL during the exposure. After a sponge bath with isopropanol, one adult had a blood isopropanol concentration of 10 mg/dL.</p>				
n-Propanol	50	mg/dL	2.0	
Synonym(s): n-Propyl Alcohol				
Methanol	50	mg/dL	5.0	
Synonym(s): Methyl Alcohol				

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Matrix Blood
Patient Name 6303B-POS
Patient ID 6303B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
Endogenous blood levels of methanol from metabolic and dietary sources are approximately 0.15 mg/dL.				
Exposure to 800 ppm methanol for 8 hours produced a maximum average blood methanol concentration of 3.1 mg/dL.				
Acetaldehyde Normal: Up to 0.02 mg/dL.	50	mg/dL	0.50	
Acetaldehyde is an unstable compound post-collection. It will both form and degrade under certain conditions. Although extreme precautions have been demonstrated to maintain the integrity of Acetaldehyde, the results will be affected under typical collection and laboratory procedures.				
Acetone Normal: Up to 3 mg/dL. Blood Acetone concentrations are markedly elevated during diabetic or fasting ketoacidosis and may range from 10 - 70 mg/dL.	50	mg/dL	0.50	
Methyl Ethyl Ketone Synonym(s): MEK	50	mcg/mL	0.30	
Methyl Isobutyl Ketone Synonym(s): MIBK	50	mcg/mL	0.50	
Methyl n-Butyl Ketone	50	mcg/mL	0.50	
Diethyl Ether Synonym(s): Ether; Ethyl Ether	50	mcg/mL	1.0	
Methyl Tertiary Butyl Ether Synonym(s): MTBE	50	mcg/mL	1.0	
Note: Any positive findings in this panel are reported as quantitative estimates. Confirmation and a more accurate and precise quantitation are available upon request.				