



In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled important changes regarding a number of tests we perform. Listed below are the types of changes that may be included in this notification, effective Monday, March 04, 2013

New Tests - Tests recently added to the NMS Labs test menu. New Tests are effective immediately.

Test Changes - Tests that have had changes to the method/ CPT code, units of measurement, scope of analysis, reference comments, or specimen requirements.

Discontinued Tests - Tests being discontinued with alternate testing suggestions.

Please use this information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

If you have any questions about the information contained in this notification, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of NMS Labs and your assistance in implementing these changes.

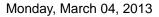
The CPT Codes provided in this document are based on AMA guidelines and are for informational purposes only. NMS Labs does not assume responsibility for billing errors due to reliance on the CPT Codes listed in this document.



Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	
0785B	Aromatic Solvents Exposure Panel, Blood					•	•		•	
0751SP	Bromocriptine, Serum/Plasma	•								
2216B	Chlorinated Hydrocarbons, Blood (CSA)				•	•	•		•	
8103B	Environmental Exposure Screen, Blood (Forensic)								•	
2030B	Ethylbenzene, Blood		•		•	•	•		•	
6303B	Firefighter Core Baseline Profile, Blood						•		•	
2321B	Hydrocarbon and Oxygenated Volatiles Panel, Blood				•		•		•	
2321FL	Hydrocarbon and Oxygenated Volatiles Panel, Fluid				•		•			
2321TI	Hydrocarbon and Oxygenated Volatiles Panel, Tissue				•		•			
2321U	Hydrocarbon and Oxygenated Volatiles Panel, Urine				•		•			
2417B	Inhalant Intoxicants Profile, Blood				•		•			
2415B	Inhalants Panel, Blood						•			
2408B	Inhalants Panel, Blood (CSA)				•		•		•	
2414B	Inhalants Panel, Halocarbons, Blood				•		•		•	
2414TI	Inhalants Panel, Halocarbons, Tissue				•		•			
2409U	Inhalants Panel, Urine (CSA)				•	•	•			
2490B	Lead and ZPP, Blood								•	
2492B	Lead, Blood								•	
2494B	Lead, Micro and EP (Pediatric), Blood								•	
2693B	Metals/Metalloids Acute Poisoning Panel, Blood								•	
2661B	Metals/Metalloids Panel 1, Blood								•	
2663B	Metals/Metalloids Panel 3, Blood								•	
4630B	Methyl Chloroform, Blood				•	•	•			
3060U	N,N-DimethylacetamideExposure (N-Methylacetamide), Urine		•		•		•		•	
3070U	N,N-Dimethylformamide (DMF) Exposure (N- Monomethylformamide), Urine		•		•	•	•		•	
0871B	Solvent Exposure Profile, Blood					•	•		•	
4297U	Tadalafil, Urine									•
4333B	Tetrachloroethane, Blood				•	•	•			



Test Code	Test Name	New Test	Test Name	Method / CPT Code	•	Stability	Scope	Units	Reference Comments	Discontinue
4333U	Tetrachloroethane, Urine				•		•			
3430B	Tetrachloroethylene, Blood		•		•		•		•	





New Tests

0751SP Bromocriptine, Serum/Plasma

Effective Immediately

Scope of Analysis: Bromocriptine [LC-MS/MS]

Method(s): High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Purpose: Therapeutic Drug Monitoring

Category: Parkinsonian Agent

Specimen Requirements: 2 mL Serum or Plasma

Minimum Volume: 0.6 mL

Special Handling: Collect sample in Lavender top tube (EDTA).

Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved

guidelines.

Specimen Container: Plastic container (preservative-free)

Transport Temperature: Frozen
Light Protection: Yes

Rejection Criteria: Not received Light Protected. Polymer gel separation tube (SST or PST).

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Stability: Room Temperature: Undetermined Refrigerated: Undetermined Frozen (-20 °C): 1 month(s)

Method: High Performance Liquid Chromatography/Tandem Mass Spectrometry

(LC-MS/MS)

Set-Up Days / TAT: Wednesday 4 days (after set-up)

CPT Code: 83789

Compound Name / Alias	Units	KL	Reference Comment	
Bromocriptine	pg/mL	2.0	No therapeutic reference ranges have been	
			established due to the variability in dosage	
			regimens, large interindividual variations in patients	
			with fixed dosages, and differences in methodology	



Test Changes

0785B Aromatic Solvents Exposure Panel, Blood

Summary of Changes: Stability was changed.

Scope of Analysis was changed. Reference Comment was changed.

Ethyl Benzene was changed to Ethylbenzene

Stability: Room Temperature: Not Stable

Refrigerated: 7 day(s) Frozen (-20 °C): 5 day(s)

Scope of Analysis: Headspace GC (84600): Benzene, Toluene, o-Xylene, p-Xylene, m-Xylene,

Method (CPT Code) Ethylbenzene, Styrene

Compound Name	Units	Reference Comment
Ethylbenzene	mcg/mL	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.
		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.

2216B Chlorinated Hydrocarbons, Blood (CSA)

Summary of Changes: Specimen Requirements (Specimen Container) were changed.

Stability was changed.

Scope of Analysis was changed. Reference Comment was changed.

Perchloroethylene was changed to Tetrachloroethylene

Specimen Requirements: 4 mL Blood
Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate), Lavender top tube (EDTA)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria: None

Stability: Room Temperature: Undetermined

Refrigerated: 10 day(s)

Frozen (-20 °C): Undetermined

Scope of Analysis: GC (82441): p-Dichlorobenzene, m-Dichlorobenzene, o-Dichlorobenzene Method (CPT Code) GC (84600): Carbon Tetrachloride, Chloroform, Tetrachloroethylene, 1,1,1-

Trichloroethane, Trichloroethylene, Dichloromethane



Monday, March 04, 2013

New Tests and Test Updates

Test Changes

8103B

Compound Name Units		Reference Comment		
Tetrachloroethylene	mcg/mL	Biological Exposure Index (ACGIH):		
		Following workplace exposure to Tetrachlorethylene:		
		0.5 mcg/mL in a blood specimen collected prior to		
		shift after at least two consecutive workdays		
		with exposure.		

Summary of Changes:	Reference Comment was changed.
Scope of Analysis:	MD (80101): Cyanide
Method (CPT Code)	Colorimetry (80101): Bromides
	Headspace GC (82055): Ethanol, Blood Alcohol Concentration (BAC), Methanol,
	Isopropanol, Acetone
	ICP/MS (83655): Lead
	ICP/MS (82175): Arsenic

ICP/MS (83018): Thallium ICP/MS (83825): Mercury GC (83921): Trichloroacetic Acid Headspace GC (84600): Volatiles GC (84600): Hydrocarbon Gases

ICP/MS (84255): Selenium

Environmental Exposure Screen, Blood (Forensic)

GC (84600): Halocarbons ICP/MS (83018): Bismuth ICP/MS (83018): Barium ICP/MS (83018): Antimony EZA (82480): Cholinesterase SP (80101): Carboxyhemoglobin

SP (83050): Methemoglobin, Sulfhemoglobin

Compound Name	Units	Reference Comment
Lead	mcg/dL	Reported geometric mean blood lead concentration for US population (both adults and children) is less than 2 mcg/dL (taking into account the 95% CI).

The following are the reported age-based 50th and 95th percentiles (with 95% CI)*:

Age 1 - 5 years:

50th Percentile: 1.43 mcg/dL (1.30 - 1.60) 95th Percentile: 4.10 mcg/dL (3.40 - 5.19)

Age 6 - 11 years:

50th Percentile: 0.96 mcg/dL (0.88 - 1.07) 95th Percentile: 2.50 mcg/dL (2.10 - 2.88)

Age 12 - 19 years:

50th Percentile: 0.76 mcg/dL (0.72 - 0.82) 95th Percentile: 1.90 mcg/dL (1.70 - 2.32)

Age 20 years and above:

50th Percentile: 1.34 mcg/dL (1.26 - 1.42) 95th Percentile: 3.90 mcg/dL (3.68 - 4.23)



Test Changes

Compound Name	Units	Reference Comment
		*National Health and Nutrition Examination Survey, 2007-2008 data; Fourth National Report on Human Exposure to Environmental Chemicals, Updated Tables, February 2012.
		Department of Health and Human Services, Centers for Disease Control and Prevention.
		The US Centers for Disease Control and Prevention (CDC) reference value based on the 97.5th percentile of the blood lead level distribution in US children aged 1-5 years is 5 mcg/dL.
		It is reported that blood lead levels in the range of 5 - 9 mcg/dL have been associated with adverse health effects in children aged 6 years and younger.
		Additionally, the following guidelines are offered by US Centers for Disease Control and Prevention, especially in respect to children:
		10 - 14 mcg/dL is moderately high and may require re-screening. 20 - 44 mcg/dL is high and may require immediate medical attention.
		45 - 69 mcg/dL requires urgent attention. Greater than 70 mcg/dL is a medical emergency.
		Refer to OSHA's website for workplace information. Various states require that blood lead concentrations above certain mandated 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.

2030B Ethylbenzene, Blood

Summary of Changes: Test Name was changed.

Specimen Requirements (Transport Temperature) were changed.

Stability was changed.

Scope of Analysis was changed. Reference Comment was changed.



Test Changes

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate)

Light Protection: Not Required

Special Handling: None

Rejection Criteria: Received Room Temperature.

Stability: Room Temperature: 5 day(s)

Refrigerated: 2 month(s) Frozen (-20 °C): 2 month(s)

Scope of Analysis: Headspace GC (84600): Ethylbenzene

Method (CPT Code)

Compound Name	Units	Reference Comment
Ethylbenzene	mcg/mL	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. 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.

6303B Firefighter Core Baseline Profile, Blood

Summary of Changes: Scope of Analysis was changed.

Reference Comment was changed.

Ethyl Benzene was changed to Ethylbenzene

Scope of Analysis: ICP/MS (83655): Lead Method (CPT Code) H (84202): ZPP

Headspace GC (84600): Benzene, Ethylbenzene, Styrene, Toluene, Xylenes (o,m,p), n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, n-Butanol, Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl Ether,

Methyl Acrylate, Methyl Tertiary Butyl Ether



Test Changes

Compound Name	Units	Reference Comment
Ethylbenzene	mcg/mL	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.
		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.
Lead	mcg/dL	Reported geometric mean blood lead concentration for US population (both adults and children) is less than 2 mcg/dL (taking into account the 95% CI).
		The following are the reported age-based 50th and 95th percentiles (with 95% CI)*: Age 1 - 5 years: 50th Percentile: 1.43 mcg/dL (1.30 - 1.60) 95th Percentile: 4.10 mcg/dL (3.40 - 5.19) Age 6 - 11 years: 50th Percentile: 0.96 mcg/dL (0.88 - 1.07) 95th Percentile: 2.50 mcg/dL (2.10 - 2.88) Age 12 - 19 years: 50th Percentile: 0.76 mcg/dL (0.72 - 0.82) 95th Percentile: 1.90 mcg/dL (1.70 - 2.32) Age 20 years and above: 50th Percentile: 1.34 mcg/dL (1.26 - 1.42) 95th Percentile: 3.90 mcg/dL (3.68 - 4.23) *National Health and Nutrition Examination Survey, 2007-2008 data; Fourth National Report on Human Exposure to Environmental Chemicals, Updated Tables, February 2012. Department of Health and Human Services, Centers for Disease Control and Prevention.
		The US Centers for Disease Control and Prevention (CDC) reference value based on the 97.5th percentile of the blood lead level distribution in US children aged 1-5 years is 5 mcg/dL.
		It is reported that blood lead levels in the range of 5 - 9 mcg/dL have been associated with adverse health effects in children aged 6 years and younger.
		Additionally, the following guidelines are offered by



Test Changes

Compound Name	Units	Reference Comment
		US Centers for Disease Control and Prevention,
		especially in respect to children:
		10 - 14 mcg/dL is moderately high and may require
		re-screening.
		20 - 44 mcg/dL is high and may require immediate
		medical attention.
		45 - 69 mcg/dL requires urgent attention.
		Greater than 70 mcg/dL is a medical emergency.
		Refer to OSHA's website for workplace information.
		Various states require that blood lead concentrations
		above certain mandated 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.

2321B Hydrocarbon and Oxygenated Volatiles Panel, Blood

Summary of Changes: Specimen Requirements (Specimen Container) were changed.

Specimen Requirements (Special Handling) were changed.

Scope of Analysis was changed. Reference Comment was changed.

Ethyl Benzene was changed to Ethylbenzene

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate), Lavender top tube (EDTA)

Light Protection: Not Required

Special Handling: Collect sample using alcohol free skin preparation. Ensure that container remains

tightly sealed.

Rejection Criteria: None

Scope of Analysis: Headspace GC (84600): Benzene, Ethylbenzene, Styrene, Toluene, Xylenes (o,m,p), Method (CPT Code) n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, n-Butanol,

Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl Ether,

Methyl Acrylate, Methyl Tertiary Butyl Ether



Test Changes

Compound Name	Units	Reference Comment
Ethylbenzene	mcg/mL	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.
		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.

2321FL Hydrocarbon and Oxygenated Volatiles Panel, Fluid

Specimen Requirements (Transport Temperature) were changed. Summary of Changes:

Scope of Analysis was changed.

Ethyl Benzene was changed to Ethylbenzene

Specimen Requirements: 2 mL Fluid Transport Temperature: Frozen

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria:

Scope of Analysis: Headspace GC (84600): Benzene, Ethylbenzene, Styrene, Toluene, Xylenes (o,m,p), Method (CPT Code) n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, n-Butanol, Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl

Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl Ether,

Methyl Acrylate, Methyl Tertiary Butyl Ether

2321TI Hydrocarbon and Oxygenated Volatiles Panel, Tissue

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.

Scope of Analysis was changed.

Ethyl Benzene was changed to Ethylbenzene

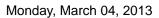
Specimen Requirements: 10 g Tissue Transport Temperature: Frozen

> Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria: None





Test Changes

Scope of Analysis: Headspace GC (80103, 84600): Benzene, Ethylbenzene, Styrene, Toluene, Xylenes Method (CPT Code) (o,m,p), n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, n-

Butanol, Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl

Ether, Methyl Acrylate, Methyl Tertiary Butyl Ether

2321U Hydrocarbon and Oxygenated Volatiles Panel, Urine

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.

Scope of Analysis was changed.

Ethyl Benzene was changed to Ethylbenzene

Specimen Requirements: 2 mL Urine Transport Temperature: Frozen

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria: None

Scope of Analysis: Headspace GC (84600): Benzene, Ethylbenzene, Styrene, Toluene, Xylenes (o,m,p), Method (CPT Code) n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, n-Butanol,

Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl Ether,

Methyl Acrylate, Methyl Tertiary Butyl Ether

2417B Inhalant Intoxicants Profile, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.

Scope of Analysis was changed.

Trichloroethane was changed to 1,1,1-Trichloroethane Tetrachloroethane was changed to 1,1,2,2-Tetrachloroethane

Specimen Requirements: 4 mL Blood
Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate), Lavender top tube (EDTA)

Light Protection: Not Required

Special Handling: Collect sample using alcohol free skin preparation. Ensure that container remains

tightly sealed.

Rejection Criteria: None

Scope of Analysis: SP (82375): Carboxyhemoglobin

Method (CPT Code) Headspace GC (84600): Benzene, Toluene, Xylene, Acetone, Ethyl Acetate, Methyl

Ethyl Ketone, Iso-Amyl Alcohol, n-Amyl Alcohol, Iso-Butyl Alcohol, n-Butyl Alcohol, Cyclopropane, Ethyl Ether, Chloromethane, Dichloromethane, Chloroform, Carbon Tetrachloride, Chloroethane, Dichloroethane, 1,1,1-Trichloroethane, 1,1,2,2-

Tetrachloroethane, Trichlorofluoromethane, Dichlorodifluoromethane,

Trichlorotrifluoroethane, Methanol, Ethanol, Isopropanol

2408B Inhalants Panel, Blood (CSA)



Test Changes

Specimen Requirements (Special Handling) were changed. Summary of Changes:

> Scope of Analysis was changed. Reference Comment was changed.

Ethyl Benzene was changed to Ethylbenzene

Specimen Requirements: 4 mL Blood Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate), Lavender top tube (EDTA)

Light Protection: Not Required

Special Handling: Collect sample using alcohol free skin preparation. Ensure that container remains

tightly sealed.

None Rejection Criteria:

Scope of Analysis: Method (CPT Code)

Headspace GC (84600): n-Butanol, Isobutanol, Sec-Butanol, Tert-Butanol, n-Amyl Alcohol, Iso-Amyl Alcohol, Benzene, Ethylbenzene, Styrene, Toluene, Xylenes (o,m,p), n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, n-Butanol, Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl

Ether, Methyl Acrylate, Methyl Tertiary Butyl Ether

GC (84600): Cyclopropane

Compound N	lame
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Ethylbenzene

Units mcg/mL

Reference Comment

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.

Exposure to this compound generally occurs through the pulmonary route. At air concentrations of 1000 ppm, the compound causes irritation to the eves and nose. Higher concentrations may result in dizziness and central nervous system depression.

2415B

Inhalants Panel, Blood

Summary of Changes: Scope of Analysis was changed.

> Trichloroethane was changed to 1,1,1-Trichloroethane Tetrachloroethane was changed to 1,1,2,2-Tetrachloroethane

Headspace GC (84600): Benzene, Toluene, Xylene, Acetone, Ethyl Acetate, Methyl Scope of Analysis: Method (CPT Code) Ethyl Ketone, Iso-Amyl Alcohol, n-Amyl Alcohol, Iso-Butyl Alcohol, n-Butyl Alcohol,

Cyclopropane, Ethyl Ether, Chloromethane, Dichloromethane, Chloroform, Carbon Tetrachloride, Chloroethane, Dichloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, Trichlorofluoromethane, Dichlorodifluoromethane,

Trichlorotrifluoroethane, Methanol, Ethanol, Isopropanol

Inhalants Panel, Halocarbons, Blood

2414B



Test Changes

Summary of Changes: Specimen Requirements (Specimen Container) were changed.

Scope of Analysis was changed. Reference Comment was changed.

Methyl Chloroform was changed to 1,1,1-Trichloroethane Perchloroethylene was changed to Tetrachloroethylene

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate), Lavender top tube (EDTA)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria: None

Scope of Analysis: GC (84600): Carbon Tetrachloride, Chloroform, Dichloromethane,

Method (CPT Code) Trichlorofluoromethane, Dichlorodifluoromethane, Trichlorotrifluoroethane, 1,1,1-

Trichloroethane, Tetrachloroethylene, Trichloroethylene

Compound Name	Units	Reference Comment
Tetrachloroethylene	mcg/mL	Biological Exposure Index (ACGIH):
·	_	Following workplace exposure to Tetrachlorethylene:
		0.5 mcg/mL in a blood specimen collected prior to
		shift after at least two consecutive workdays
		with exposure.

2414TI Inhalants Panel, Halocarbons, Tissue

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.

Specimen Requirements (Specimen Container) were changed.

Scope of Analysis was changed.

Methyl Chloroform was changed to 1,1,1-Trichloroethane Perchloroethylene was changed to Tetrachloroethylene

Specimen Requirements: 10 g Tissue Transport Temperature: Frozen

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria: None

Scope of Analysis: GC (80103, 84600): Carbon Tetrachloride, Chloroform, Dichloromethane, Method (CPT Code) Trichlorofluoromethane, Dichlorodifluoromethane, Trichlorotrifluoroethane, 1,1,1-

Trichloroethane, Tetrachloroethylene, Trichloroethylene

2409U Inhalants Panel, Urine (CSA)



Test Changes

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.

Specimen Requirements (Special Handling) were changed.

Stability was changed.

Scope of Analysis was changed.

Ethyl Benzene was changed to Ethylbenzene

Specimen Requirements: 5 mL Urine Transport Temperature: Frozen

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Samples preserved with Benzoic Acid are unsuitable for analysis. Preservative-free

Urine samples are recommended.

Rejection Criteria: None

Stability: Room Temperature: Undetermined

Refrigerated: Undetermined Frozen (-20 °C): Undetermined

Acetaldehyde is an unstable compound post-collection and will both form and degrade under certain sample handling conditions. Even when extreme precautions are taken to maintain the integrity of Acetaldehyde during sample collection, transport and analysis, the results will be affected under typical collection and

laboratory procedures.

Scope of Analysis: Method (CPT Code)

Headspace GC (84600): n-Butanol, Isobutanol, Sec-Butanol, Tert-Butanol, n-Amyl Alcohol, Iso-Amyl Alcohol, Benzene, Ethylbenzene, Styrene, Toluene, Xylenes (o,m,p), n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl Ether,

Methyl Acrylate, Methyl Tertiary Butyl Ether

IC (82492): Nitrite, Nitrate

GC (84600): Phenol - Total, o-Cresol

IC (83921): Hippuric Acid, Methylhippuric Acid, Mandelic Acid

2490B Lead and ZPP, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83655): Lead

Method (CPT Code) H (84202): ZPP

Compound Name	Units	Reference Comment
Lead	mcg/dL	Reported geometric mean blood lead concentration for US population (both adults and children) is less than 2 mcg/dL (taking into account the 95% CI).
		The following are the reported age-based 50th and 95th percentiles (with 95% CI)*: Age 1 - 5 years: 50th Percentile: 1.43 mcg/dL (1.30 - 1.60)



Monday, March 04, 2013

New Tests and Test Updates

est Changes Compound Name	Units	Reference Comment
		95th Percentile: 4.10 mcg/dL (3.40 - 5.19)
		Age 6 - 11 years:
		50th Percentile: 0.96 mcg/dL (0.88 - 1.07)
		95th Percentile: 2.50 mcg/dL (2.10 - 2.88)
		Age 12 - 19 years:
		50th Percentile: 0.76 mcg/dL (0.72 - 0.82)
		95th Percentile: 1.90 mcg/dL (1.70 - 2.32)
		Age 20 years and above:
		50th Percentile: 1.34 mcg/dL (1.26 - 1.42)
		95th Percentile: 3.90 mcg/dL (3.68 - 4.23)
		*National Health and Nutrition Examination Survey,
		2007-2008 data; Fourth National Report on Human
		Exposure
		to Environmental Chemicals, Updated Tables, February
		2012.
		Department of Health and Human Services, Centers for
		Disease Control and Prevention.
		The US Centers for Disease Control and Prevention (CDC
		reference value based on the 97.5th percentile of the
		blood lead level distribution in US children aged
		1-5 years is 5 mcg/dL.
		It is reported that blood lead levels in the range of
		5 - 9 mcg/dL have been associated with adverse health
		effects in children aged 6 years and younger.
		Additionally, the following guidelines are offered by
		US Centers for Disease Control and Prevention,
		especially in respect to children:
		10 - 14 mcg/dL is moderately high and may require
		re-screening.
		20 - 44 mcg/dL is high and may require immediate

medical attention.

45 - 69 mcg/dL requires urgent attention.

state in which the patient resides.

Greater than 70 mcg/dL is a medical emergency.

Refer to OSHA's website for workplace information. Various states require that blood lead concentrations above certain mandated cutoffs must be reported to the

Please contact NMS Labs if you need assistance in supplying your state with the required information.

2492B Lead, Blood



Test Changes

Summary of Changes:	s: Reference Comment was changed.	
Scope of Analysis: Method (CPT Code)		
Compound Name	Units	Reference Comment
Lead	mcg/dL	Reported geometric mean blood lead concentration for US population (both adults and children) is less than 2 mcg/dL (taking into account the 95% CI). The following are the reported age-based 50th and 95th percentiles (with 95% CI)*: Age 1 - 5 years: 50th Percentile: 1.43 mcg/dL (1.30 - 1.60) 95th Percentile: 4.10 mcg/dL (3.40 - 5.19) Age 6 - 11 years: 50th Percentile: 0.96 mcg/dL (0.88 - 1.07) 95th Percentile: 2.50 mcg/dL (2.10 - 2.88) Age 12 - 19 years: 50th Percentile: 0.76 mcg/dL (0.72 - 0.82) 95th Percentile: 1.90 mcg/dL (1.70 - 2.32) Age 20 years and above: 50th Percentile: 1.34 mcg/dL (1.26 - 1.42) 95th Percentile: 3.90 mcg/dL (3.68 - 4.23) *National Health and Nutrition Examination Survey, 2007-2008 data; Fourth National Report on Human Exposure to Environmental Chemicals, Updated Tables, February
		2012. Department of Health and Human Services, Centers for

Department of Health and Human Services, Centers for Disease Control and Prevention.

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

It is reported that blood lead levels in the range of 5 - 9 mcg/dL have been associated with adverse health effects in children aged 6 years and younger.

Additionally, the following guidelines are offered by US Centers for Disease Control and Prevention, especially in respect to children:

10 - 14 mcg/dL is moderately high and may require re-screening.

20 - 44 mcg/dL is high and may require immediate medical attention.

45 - 69 mcg/dL requires urgent attention.



Test Changes

Compound Name	Units	Reference Comment
		Greater than 70 mcg/dL is a medical emergency.
		Refer to OSHA's website for workplace information.
		Various states require that blood lead concentrations
		above certain mandated 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.

2494B Lead, Micro and EP (Pediatric), Blood

Summary of Changes: Reference Comment was changed.

Compound Name	Units	Reference Comment
Lead	mcg/dL	Reported geometric mean blood lead concentration for
	-	US population (both adults and children) is less than
		2 mcg/dL (taking into account the 95% CI).
		The following are the reported age-based 50th and
		95th percentiles (with 95% CI)*:
		Age 1 - 5 years:
		50th Percentile: 1.43 mcg/dL (1.30 - 1.60)
		95th Percentile: 4.10 mcg/dL (3.40 - 5.19)
		Age 6 - 11 years:
		50th Percentile: 0.96 mcg/dL (0.88 - 1.07)
		95th Percentile: 2.50 mcg/dL (2.10 - 2.88)
		Age 12 - 19 years:
		50th Percentile: 0.76 mcg/dL (0.72 - 0.82)
		95th Percentile: 1.90 mcg/dL (1.70 - 2.32)
		Age 20 years and above:
		50th Percentile: 1.34 mcg/dL (1.26 - 1.42)
		95th Percentile: 3.90 mcg/dL (3.68 - 4.23)
		*National Health and Nutrition Examination Survey,
		2007-2008 data; Fourth National Report on Human
		Exposure
		to Environmental Chemicals, Updated Tables, February 2012.
		Department of Health and Human Services, Centers for
		Disease Control and Prevention.

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



Test Changes

Compound Name	Units	Reference Comment
		It is reported that blood lead levels in the range of
		5 - 9 mcg/dL have been associated with adverse health
		effects in children aged 6 years and younger.
		Additionally, the following guidelines are offered by
		US Centers for Disease Control and Prevention,
		especially in respect to children:
		10 - 14 mcg/dL is moderately high and may require
		re-screening.
		20 - 44 mcg/dL is high and may require immediate
		medical attention.
		45 - 69 mcg/dL requires urgent attention.
		Greater than 70 mcg/dL is a medical emergency.
		Refer to OSHA's website for workplace information.
		Various states require that blood lead concentrations
		above certain mandated 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.

2693B	Metals/Metalloids	Acute Poisoning	Panel Blood
20000	ivictais/ivictailoids	Acute i discilling	i alici. Dioou

Scope of Analysis: ICP/MS (82175): Arsenic Method (CPT Code) ICP/MS (83018): Bismuth

ICP/MS (83825): Mercury ICP/MS (84255): Selenium ICP/MS (83018): Thallium ICP/MS (83018): Antimony ICP/MS (83018): Barium ICP/MS (83655): Lead

2661B Metals/Metalloids Panel 1, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83655): Lead Method (CPT Code) ICP/MS (82175): Arsenic

ICP/MS (83825): Mercury





Compound Name	Units	Reference Comment
Lead	mcg/dL	Reported geometric mean blood lead concentration for
	_	US population (both adults and children) is less than
		2 mcg/dL (taking into account the 95% CI).
		The following are the reported age-based 50th and
		95th percentiles (with 95% CI)*:
		Age 1 - 5 years:
		50th Percentile: 1.43 mcg/dL (1.30 - 1.60)
		95th Percentile: 4.10 mcg/dL (3.40 - 5.19)
		Age 6 - 11 years:
		50th Percentile: 0.96 mcg/dL (0.88 - 1.07)
		95th Percentile: 2.50 mcg/dL (2.10 - 2.88)
		Age 12 - 19 years:
		50th Percentile: 0.76 mcg/dL (0.72 - 0.82)
		95th Percentile: 1.90 mcg/dL (1.70 - 2.32)
		Age 20 years and above:
		50th Percentile: 1.34 mcg/dL (1.26 - 1.42)
		95th Percentile: 3.90 mcg/dL (3.68 - 4.23)
		*National Health and Nutrition Examination Survey,
		2007-2008 data; Fourth National Report on Human Exposure
		to Environmental Chemicals, Updated Tables, February
		2012.
		Department of Health and Human Services, Centers for
		Disease Control and Prevention.
		The US Centers for Disease Control and Prevention (CDC
		reference value based on the 97.5th percentile of the
		blood lead level distribution in US children aged
		1-5 years is 5 mcg/dL.
		·
		It is reported that blood lead levels in the range of
		5 - 9 mcg/dL have been associated with adverse health
		effects in children aged 6 years and younger.
		Additionally, the following guidelines are offered by
		US Centers for Disease Control and Prevention,
		especially in respect to children:
		10 - 14 mcg/dL is moderately high and may require

re-screening.

medical attention.

20 - 44 mcg/dL is high and may require immediate

45 - 69 mcg/dL requires urgent attention. Greater than 70 mcg/dL is a medical emergency.



Test Changes

Compound Name	Units	Reference Comment
		Refer to OSHA's website for workplace information.
		Various states require that blood lead concentrations
		above certain mandated 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.

2663B Metals/Metalloids Panel 3, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (82495): Chromium Method (CPT Code) ICP/MS (82300): Cadmium

> H (84202): ZPP ICP/MS (83655): Lead ICP/MS (82175): Arsenic ICP/MS (83825): Mercury

Compound Name Units Reference Comment

Lead mcg/dL Reported geometric mean blood lead concentration for US population (both adults and children) is less than

2 mcg/dL (taking into account the 95% CI).

The following are the reported age-based 50th and

95th percentiles (with 95% CI)*:

Age 1 - 5 years:

50th Percentile: 1.43 mcg/dL (1.30 - 1.60) 95th Percentile: 4.10 mcg/dL (3.40 - 5.19)

Age 6 - 11 years:

50th Percentile: 0.96 mcg/dL (0.88 - 1.07) 95th Percentile: 2.50 mcg/dL (2.10 - 2.88)

Age 12 - 19 years:

50th Percentile: 0.76 mcg/dL (0.72 - 0.82) 95th Percentile: 1.90 mcg/dL (1.70 - 2.32)

Age 20 years and above:

50th Percentile: 1.34 mcg/dL (1.26 - 1.42) 95th Percentile: 3.90 mcg/dL (3.68 - 4.23)

*National Health and Nutrition Examination Survey, 2007-2008 data; Fourth National Report on Human

Exposure

to Environmental Chemicals, Updated Tables, February

Department of Health and Human Services, Centers for Disease Control and Prevention.

The US Centers for Disease Control and Prevention (CDC) reference value based on the 97.5th percentile of the blood lead level distribution in US children aged



Test Changes

Compound Name	Units	Reference Comment
		1-5 years is 5 mcg/dL.
		It is reported that blood lead levels in the range of
		5 - 9 mcg/dL have been associated with adverse health
		effects in children aged 6 years and younger.
		Additionally, the following guidelines are offered by
		US Centers for Disease Control and Prevention,
		especially in respect to children:
		10 - 14 mcg/dL is moderately high and may require
		re-screening.
		20 - 44 mcg/dL is high and may require immediate
		medical attention.
		45 - 69 mcg/dL requires urgent attention.
		Greater than 70 mcg/dL is a medical emergency.
		Refer to OSHA's website for workplace information.
		Various states require that blood lead concentrations
		above certain mandated 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.
		capping your state with the required information.

4630B Methyl Chloroform, Blood

Summary of Changes: Specimen Requirements (Specimen Container) were changed.

Stability was changed.

Scope of Analysis was changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria: None

Stability: Room Temperature: Undetermined

Refrigerated: 2 month(s) Frozen (-20 °C): Undetermined

Scope of Analysis: GC (84600): 1,1,1-Trichloroethane

Method (CPT Code)

3060U N,N-DimethylacetamideExposure (N-Methylacetamide), Urine



Test Changes

Summary of Changes: Test Name was changed.

Specimen Requirements (Special Handling) were changed.

Scope of Analysis was changed. Reference Comment was changed.

Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Collect sample at end of shift at end of work week.

Avoid consumption of alcoholic beverages on the sampling day.

Rejection Criteria: None

Scope of Analysis: Colorimetry (82570): Creatinine

Method (CPT Code) GC (82491): N-Methylacetamide, N-Methylacetamide (Creatinine corrected)

Compound Name	Units	Reference Comment
N-Methylacetamide (Creatinine corrected)	mg/g Creat	Biological Exposure Index (ACGIH): Following workplace exposure to N,N-Dimethylacetamide: 30 mg N-Methylacetamide/g Creatinine measured in a urine specimen collected at end of shift at end of work week.

3070U N,N-Dimethylformamide (DMF) Exposure (N-Monomethylformamide), Urine

Summary of Changes: Test Name was changed.

Specimen Requirements (Special Handling) were changed.

Stability was changed.

Scope of Analysis was changed. Reference Comment was changed.

Specimen Requirements: 6 mL Urine
Transport Temperature: Refrigerated

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Collect sample at end of shift.

Avoid consumption of alcoholic beverages on the sampling day.

Rejection Criteria: None

Stability: Room Temperature: Undetermined

Refrigerated: 7 day(s)

Frozen (-20 °C): Undetermined

Scope of Analysis: Colorimetry (82570): Creatinine Method (CPT Code) GC (82491): N-Monomethylformamide



Test Changes

Compound Name	Units	Reference Comment
N-Monomethylformamide	mg/L	Biological Exposure Index (ACGIH): Following workplace exposure to N,N-Dimethylacetamide: 15 mg/L measured in a urine specimen collected at end of shift.

0871B Solvent Exposure Profile, Blood

Scope of Analysis:

Summary of Changes: Stability was changed.

Scope of Analysis was changed. Reference Comment was changed.

Ethyl Benzene was changed to Ethylbenzene

Trichloroethane was changed to 1,1,1-Trichloroethane

Stability: Room Temperature: Undetermined

Refrigerated: 7 day(s)

Frozen (-20 °C): Undetermined GC (82441): Trichloroethanol

Method (CPT Code) Headspace GC (84600): Benzene, Toluene, o-Xylene, p-Xylene, m-Xylene,

Ethylbenzene, Styrene

GC (84600): Carbon Tetrachloride, 1,1,1-Trichloroethane, Trichloroethylene,

Tetrachloroethylene

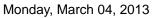
Compound Name	Units	Reference Comment
Ethylbenzene	mcg/mL	Ethylbenzene is used as a commercial solvent, fuel additive and chemical intermediate in the production of styrene. In the U.S. population, blood concentrations in non-occupationally exposed individuals are generally less than 0.001 mcg/mL.
		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 pervous system depression.

4333B Tetrachloroethane, Blood

Summary of Changes: Specimen Requirements (Specimen Container) were changed.

Stability was changed.

Scope of Analysis was changed.





Test Changes

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated

Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate)

Light Protection: Not Required

Special Handling: None Rejection Criteria: None

Stability: Room Temperature: Undetermined

Refrigerated: 2 month(s)

Frozen (-20 °C): Undetermined

Scope of Analysis: GC (84600): 1,1,2,2-Tetrachloroethane

Method (CPT Code)

4333U Tetrachloroethane, Urine

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.

Specimen Requirements (Rejection Criteria) were changed.

Scope of Analysis was changed.

Specimen Requirements: 2 mL Urine Transport Temperature: Frozen

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: None Rejection Criteria: None

Scope of Analysis: GC (84600): 1,1,2,2-Tetrachloroethane

Method (CPT Code)

3430B Tetrachloroethylene, Blood

Summary of Changes: Test Name was changed.

Specimen Requirements (Specimen Container) were changed. Specimen Requirements (Special Handling) were changed.

Scope of Analysis was changed. Reference Comment was changed.

Specimen Requirements: 2 mL Blood Transport Temperature: Refrigerated

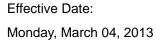
Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate)

Light Protection: Not Required

Special Handling: Ensure that container remains tightly sealed.

Rejection Criteria: Received Room Temperature. Scope of Analysis: GC (84600): Tetrachloroethylene

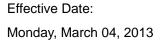
Method (CPT Code)





Test Changes

Compound Name	Units	Reference Comment
Tetrachloroethylene	mcg/mL	Biological Exposure Index (ACGIH):
		Following workplace exposure to Tetrachlorethylene:
		0.5 mcg/mL in a blood specimen collected prior to
		shift after at least two consecutive workdays
		with exposure.





Discontinued Tests

Test Code	Test Name	Alternative Test
4297U	Tadalafil, Urine	4297B - Tadalafil, Blood
		4297SP - Tadalafil, Serum/Plasma