Effective Date: Monday, October 29, 2012



New Tests and Test Updates

Immediate Action

Modified Date: 10/24/2012

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, October 29, 2012

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.

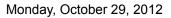
Please use this information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

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	Discontinue
0711R	Boron, RBCs									•
0938R	Calcium - Total, RBCs			•		•			•	
0936R	Calcium Unwashed - Total, RBCs			•		•				
9401U	Chloral Hydrate Screen, Urine			•	•	•			•	
1330R	Copper, RBCs			•		•			•	
2416U	Inhalants Metabolites Panel, Urine			•	•				•	
2426U	Inhalants and Metabolites Panel, Urine			•	•				•	
2430R	Iron, RBCs									•
2520R	Lithium, RBCs			•	•	•			•	
2551R	Magnesium - Total, RBCs			•	•	•			•	
6153R	Metals Panel 1, RBCs			•	•	•			•	
3069R	Mineral Profile (7), RBCs			•					•	
3066R	Mineral Profile, RBCs			•		•			•	
3432U	Perchloroethylene Exposure, Urine			•	•	•			•	
3765R	Phosphorus - Total, RBCs									•
3784R	Potassium - Total, RBCs			•	•	•			•	
4190R	Silicon, RBCs									•
0872U	Solvent Profile, Urine			•			•		•	
4627U	Trichloroacetic Acid, Urine			•	•	•	•		•	
4658U	Trichloroethylene Exposure, Urine			•	•	•	•		•	
4844R	Zinc, RBCs			•		•			•	





Test Changes

0938R Calcium - Total, RBCs

Summary of Changes: Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (82310)]

Stability: Room Temperature: Not Stable

Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s) ICP/OES (82310): Calcium

Scope of Analysis: Method (CPT Code)

Compound Name	Units	Reference Comment
Calcium	mg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is <rl (1.10="" (n="1091)." 2.3="" analysis="" and="" by="" clinical="" density="" diagnostic="" dl="" for="" g="" human="" measured="" mg="" ml)="" multiplied="" not="" obtain="" of="" purposes.<="" rbc="" sample="" td="" the="" to="" units.="" used="" was="" weight=""></rl>

0936R Calcium Unwashed - Total, RBCs

Summary of Changes: Stability was changed.

Methods/CPT Codes were changed [ICP/OES (82310)]

Stability: Room Temperature: Not Stable

Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s) ICP/OES (82310): Calcium

Scope of Analysis: Method (CPT Code)

9401U Chloral Hydrate Screen, Urine

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements (Specimen Container) were changed.

Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [GC (83921)]

Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated

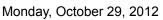
Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: None Rejection Criteria: None

Stability: Room Temperature: 14 day(s)

Refrigerated: 14 day(s) Frozen (-20 °C): 14 day(s)





Test Changes

Scope of Analysis: GC (83921): Trichloroacetic Acid

Method (CPT Code)

Compound Name	Units	Reference Comment
Trichloroacetic Acid	mg/L	Trichloroacetic Acid is a major urinary metabolite of Chloral Hydrate that is slowly excreted over several days.

1330R Copper, RBCs

Summary of Changes: Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (82525)]

Stability: Room Temperature: Not Stable

Refrigerated: 14 day(s) Frozen (-20 °C): 14 day(s) ICP/OES (82525): Copper

Scope of Analysis: Method (CPT Code)

Compound Name	Units	Reference Comment
Copper	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 59 - 91 mcg/dL (n=1999). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.

2416U Inhalants Metabolites Panel, Urine

Summary of Changes: Specimen Requirements were changed.

Reference Comment was changed.

Methods/CPT Codes were changed [GC (83921)]

Specimen Requirements: 4 mL Urine
Transport Temperature: Refrigerated

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

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

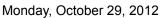
Urine samples are recommended.

Rejection Criteria: None

Scope of Analysis: GC (84600): Phenol - Total, o-Cresol

Method (CPT Code) IC (83921): Hippuric Acid, Methylhippuric Acid, Mandelic Acid, Phenylglyoxylic Acid

GC (83921): Trichloroacetic Acid





Test Changes

Compound Name	Units	Reference Comment
Trichloroacetic Acid	mg/L	Biological Exposure Index (ACGIH): Following workplace exposure to Methyl Chloroform: 10 mg/L measured in an end of workweek urine specimen.
		Following workplace exposure to Trichloroethylene: 15 mg/L measured in an end of shift at end of workweek urine specimen.

2426U Inhalants and Metabolites Panel, Urine

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements (Transport Temperature) were changed. Specimen Requirements (Specimen Container) were changed.

Reference Comment was changed.

Methods/CPT Codes were changed [GC (83921)]

Specimen Requirements: 6 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

Scope of Analysis: GC (84600): Phenol - Total, o-Cresol

Method (CPT Code) Headspace GC (84600): Acetone, Ethanol, Isopropanol, Methanol, Methyl Ethyl

Ketone, Methyl Isobutyl Ketone

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

GC (83921): Trichloroacetic Acid

	60 (65521). Michiologicale Acid			
Compound Name	Units	Reference Comment		
Trichloroacetic Acid	mg/L	Biological Exposure Index (ACGIH):		
	_	Following workplace exposure to Methyl Chloroform:		
		10 mg/L measured in an end of workweek urine specimen.		
		Following workplace exposure to Trichloroethylene:		
		15 mg/L measured in an end of shift at end of		
		workweek urine specimen.		

2520R Lithium, RBCs

Summary of Changes: Specimen Requirements were changed.

Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (80178)]



Test Changes

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated

Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Submit in container with a non-Lithium based anticoagulant. Tubes containing

Lithium based anticoagulants are not acceptable. Centrifuge and separate RBCs into

an acid washed screw capped vial within two hours of collection.

Rejection Criteria: Received Room Temperature. Light Green top tube (Lithium Heparin).

Stability: Room Temperature: Not Stable

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

Scope of Analysis: ICP/OES (80178): Lithium

Method (CPT Code)

Compound Name	Units	Reference Comment	
Lithium	mEq/L	Generally: 0.02 - 0.80 mEq/L.	
		Not for clinical diagnostic purposes.	

2551R Magnesium - Total, RBCs

Summary of Changes: Specimen Requirements were changed.

Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (83735)]

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated

Specimen Container: Green top tube (Sodium Heparin)

Light Protection: Not Required

Special Handling: Centrifuge and separate RBCs into an acid washed plastic screw capped vial within

two hours of collection.

Rejection Criteria: Received Room Temperature. Light Blue top tube (Sodium Citrate). Gray top tube

(Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate

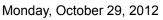
Dextrose).

Stability: Room Temperature: Not Stable

Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s) ICP/OES (83735): Magnesium

Scope of Analysis: ICP/OES (837

Method (CPT Code)





Test Changes

Compound Name	Units	Reference Comment
Magnesium	mg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 4.2 - 5.9 mg/dL (n=2812). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mg/dL units. Not for clinical diagnostic purposes.

6153R Metals Panel 1, RBCs

Summary of Changes: Specimen Requirements were changed.

Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (84630), ICP/OES (82525),

ICP/OES (84132), ICP/OES (83735), ICP/OES (82310)]

Specimen Requirements: 8 mL RBCs
Transport Temperature: Refrigerated

Specimen Container: Green top tube (Sodium Heparin), Light Green top tube (Lithium Heparin), Royal

Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Submit in container with a non-Potassium based preservative/anticoagulant. Tubes

containing Potassium based preservatives/anticoagulants are not acceptable.

Centrifuge and separate RBCs into an acid washed plastic screw capped vial within

two hours of collection.

Rejection Criteria: Received Frozen. Light Blue top tube (Sodium Citrate). Gray top tube (Sodium

Fluoride / Potassium Oxalate). Lavender top tube (EDTA). Yellow top tube (ACD -

Acid Citrate Dextrose).

Stability: Room Temperature: Undetermined

Refrigerated: Undetermined Frozen (-20 °C): Not Stable ICP/MS (82495): Chromium

Scope of Analysis: ICP/MS (82495): Chromium Method (CPT Code) ICP/OES (84630): Zinc ICP/OES (82525): Copper

ICP/OES (82525): Copper ICP/OES (84132): Potassium ICP/OES (83735): Magnesium ICP/OES (82310): Calcium

Compound Name	Units	Reference Comment
Calcium	mg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is <rl (1.10="" (n="1091)." 2.3="" analysis="" and="" by="" clinical="" density="" diagnostic="" dl="" for="" g="" human="" measured="" mg="" ml)="" multiplied="" not="" obtain="" of="" purposes.<="" rbc="" sample="" td="" the="" to="" units.="" used="" was="" weight=""></rl>



Test Changes

Compound Name	Units	Reference Comment
Copper	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 59 - 91 mcg/dL (n=1999). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.
Magnesium	mg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 4.2 - 5.9 mg/dL (n=2812). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mg/dL units. Not for clinical diagnostic purposes.
Potassium	mEq/L	NMS Labs derived data for 2.5th - 97.5th percentile range is 82 - 100 mEq/L (n=541). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mEq/L units. Not for clinical diagnostic purposes.
Zinc	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 794 - 1470 mcg/dL (n=2940). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.

3069R Mineral Profile	(7), RBCs
Summary of Changes:	Reference Comment was changed. Methods/CPT Codes were changed [ICP/OES (84630), ICP/OES (82525)]
	ICP/MS (82495): Chromium, Cobalt ICP/MS (84255): Selenium ICP/MS (83018): Molyhdanum

ICP/MS (83018): Molybdenum ICP/MS (83785): Manganese ICP/OES (84630): Zinc ICP/OES (82525): Copper

Compound Name	Units	Reference Comment
Copper	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 59 - 91 mcg/dL (n=1999). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.



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Test Changes

Compound Name	Units	Reference Comment
Zinc	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 794 - 1470 mcg/dL (n=2940). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.

3066R	Mineral	Drofile	DRCc
JUDDK	winerai	Prome.	RDUS

Summary of Changes: Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (84630), ICP/OES (82525),

ICP/OES (83735)]

Stability: Room Temperature: Undetermined

Refrigerated: Undetermined Frozen (-20 °C): Not Stable ICP/MS (84255): Selenium

Scope of Analysis: ICP/MS (84255): Selenium
Method (CPT Code) ICP/MS (83018): Molybdenum
ICP/MS (83785): Manganese

ICP/MS (83018): Cobalt, Chromium ICP/OES (84630): Zinc

ICP/OES (84630): Zilic ICP/OES (82525): Copper ICP/OES (83735): Magnesium

Compound Name	Units	Reference Comment
Copper	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 59 - 91 mcg/dL (n=1999). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.
Magnesium	mg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 4.2 - 5.9 mg/dL (n=2812). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mg/dL units. Not for clinical diagnostic purposes.
Zinc	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 794 - 1470 mcg/dL (n=2940). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.

3432U Perchloroethylene Exposure, Urine

NMS
LABS

Monday, October 29, 2012

New Tests and Test Updates

Test Changes

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements (Specimen Container) were changed.

Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [GC (83921)]

Specimen Requirements: 1 mL Urine
Transport Temperature: Refrigerated

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: None Rejection Criteria: None

Stability: Room Temperature: 14 day(s)

Refrigerated: 14 day(s) Frozen (-20 °C): 14 day(s)

Scope of Analysis: GC (83921): Trichloroacetic Acid

Method (CPT Code)

Compound Name Units		Reference Comment	
Trichloroacetic Acid	mg/L	Trichloroacetic Acid concentration in non- occupationally exposed populations is usually	
		less than 5 mg/L.	

3784R Potassium - Total, RBCs

Summary of Changes: Specimen Requirements were changed.

Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (84132)]

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated

Specimen Container: Light Green top tube (Lithium Heparin)

Light Protection: Not Required

Special Handling: Submit in container with a non-Potassium based preservative/anticoagulant. Tubes

containing Potassium based preservatives/anticoagulants are not acceptable. Centrifuge and separate RBCs into an acid washed plastic screw capped vial within

two hours of collection.

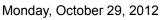
Rejection Criteria: Received Room Temperature. Light Blue top tube (Sodium Citrate). Gray top tube

(Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate

Dextrose).

Stability: Room Temperature: Not Stable

Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)





Test Changes

Scope of Analysis: ICP/OES (84132): Potassium

Method (CPT Code)

Compound Name	Units	Reference Comment
Potassium	mEq/L	NMS Labs derived data for 2.5th - 97.5th percentile range is 82 - 100 mEq/L (n=541). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mEq/L units. Not for clinical diagnostic purposes.

0872U S	olvent	Profile.	Urine
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Summary of Changes: Scope of Analysis was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [GC (83921)]
Trichloroacetic Acid (Creatinine corrected) was removed.

Scope of Analysis: GC (83921): Trichloroacetic Acid Method (CPT Code) Colorimetry (82570): Creatinine

Colorimetry (82570): Creatinine GC (82441): Trichloroethanol - Total

GC (84600): o-Cresol, p-and/or m-Cresol, Phenol - Total, Phenol - Total (Creatinine

corrected)

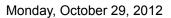
IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected), Mandelic Acid, Mandelic Acid (Creatinine corrected), Phenylglyoxylic Acid, Phenylglyoxylic Acid (Creatinine corrected), Methylhippuric Acid, Methylhippuric Acid (Creatinine

corrected)

LC-MS/MS (83789): S-Phenylmercapturic Acid, S-Phenylmercapturic Acid (Creatinine corrected), t,t-Muconic Acid, t,t-Muconic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal in an unexposed population up to 1.6 g Hippuric Acid/L urine.
Trichloroethanol - Total	mg/L	Biological Exposure Index (ACGIH): 30 mg Trichloroethanol total/L measured in a urine specimen collected at end of shift at end of workweek.
Trichloroacetic Acid	mg/L	Biological Exposure Index (ACGIH): Following workplace exposure to Methyl Chloroform: 10 mg/L measured in an end of workweek urine specimen.
		Following workplace exposure to Trichloroethylene: 15 mg/L measured in an end of shift at end of workweek urine specimen.

4627U Trichloroacetic Acid, Urine





Test Changes

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements (Specimen Container) were changed.

Stability was changed.

Scope of Analysis was changed. Reference Comment was changed.

Methods/CPT Codes were changed [GC (83921)]

Specimen Requirements: 1 mL Urine
Transport Temperature: Refrigerated

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: None Rejection Criteria: None

Stability: Room Temperature: 14 day(s)

Refrigerated: 14 day(s) Frozen (-20 °C): 14 day(s)

Scope of Analysis: GC (83921): Trichloroacetic Acid

Method (CPT Code)

Compound Name	Units	Reference Comment
Trichloroacetic Acid	mg/L	Biological Exposure Index (ACGIH): Following workplace exposure to Methyl Chloroform: 10 mg/L measured in an end of workweek urine specimen.
		Following workplace exposure to Trichloroethylene: 15 mg/L measured in an end of shift at end of workweek urine specimen.

4658U Trichloroethylene Exposure, Urine

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements (Specimen Container) were changed.

Stability was changed.

Scope of Analysis was changed. Reference Comment was changed.

Methods/CPT Codes were changed [GC (83921)]

Creatinine, Trichloroacetic Acid (Creatinine corrected), Trichloroethanol and

Trichloroethanol (Creatinine corrected) were removed.



Test Changes

Specimen Requirements: 1 mL Urine
Transport Temperature: Refrigerated

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: None Rejection Criteria: None

Stability: Room Temperature: 14 day(s)

Refrigerated: 14 day(s) Frozen (-20 °C): 14 day(s)

Scope of Analysis: GC (83921): Trichloroacetic Acid

Method (CPT Code)

Compound Name	Units	Reference Comment
Trichloroacetic Acid	mg/L	Biological Exposure Index (ACGIH): Following workplace exposure to Trichloroethylene: 15 mg/L measured in an end of shift at end of
		workweek urine specimen

4844R	Zinc. RI	3 C e
404417	ZIIIC. IXI	

Summary of Changes: Stability was changed.

Reference Comment was changed.

Methods/CPT Codes were changed [ICP/OES (84630)]

Stability: Room Temperature: Not Stable

Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)

Scope of Analysis: ICP/OES (84630): Zinc

Method (CPT Code)

Compound Name	Units	Reference Comment
Zinc	mcg/dL	NMS Labs derived data for 2.5th - 97.5th percentile range is 794 - 1470 mcg/dL (n=2940). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units. Not for clinical diagnostic purposes.



Discontinued Tests

Test Code	Test Name	Alternative Test
0711R	Boron, RBCs	No Alternate Tests Available
2430R	Iron, RBCs	No Alternate Tests Available
3765R	Phosphorus - Total, RBCs	No Alternate Tests Available
4190R	Silicon, RBCs	No Alternate Tests Available