



July 27, 2009

Dear Valued Client:

In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled the enclosed packet of important changes regarding a number of tests we perform. Listed below are the types of changes included in this packet.

<u>Type of Change</u>	<u>Explanation</u>
New Tests	Tests recently added to the NMS Labs test menu
Test Changes	Tests that have had changes to their method/CPT code, units of measurement, scope of analysis or specimen requirements
Discontinued Tests	Tests being discontinued with alternate testing suggestions
Reference Comments	Tests that have had reference comment changes

Please be advised all changes listed in this packet will go into effect on **November 2, 2009**. Please use this packet of 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 packet, 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.

Sincerely,

NMS Labs

Database Changes - Summary

Test Code	Test Name	New Test	Method/ CPT code	Units	Scope	Specimen Reqs	Stability	Discontinued	Reference Comment	Misc.
0060B	Acetoacetate, Blood							.		
0060U	Acetoacetate, Urine					.	.			
0406SP	Anticoagulant Poisoning Panel (Qualitative), Serum/Plasma					.				
0410U	Antimony, Urine						.			
0460U	Arsenic, Urine						.			
0468U	Arsenic, Total Inorganic, Urine						.			
0470UH	Total, Inorganic Arsenic, 24 Hour Urine (+Creatinine)						.			
0529U	Bentiromide - PABA Test, Urine				.	.			.	
0543U	Benzene OSHA Exposure Panel, Urine						.			
0638U	Beryllium, Urine						.			
0785SP	Aromatic Solvents Exposure Panel, Serum/Plasma				.					
0921U	Cadmium, Urine						.			
0995U	Carbon Disulfide Exposure Biouptake, Urine						.			
1261U	Chromium, Urine						.			
1348U	Creatinine, Urine						.			
1352U	o-Cresol, Urine						.			
2029U	Ethylbenzene Exposure Biouptake, Urine						.			
2090U	Fluoride, Urine						.			
2233U	Metals Panel 2, Urine (CSA)						.			
2240U	Metals/Metalloids Panel, Urine (CSA)						.			
2241U	Heavy Metals Panel 5A, Urine (CSA)						.			
2242U	Heavy Metals Panel 5B, Urine (CSA)						.			
2243U	Heavy Metals Panel 4, Urine (CSA)						.			
2300U	Hippuric Acid, Urine						.			
2321SP	Hydrocarbon and Oxygenated Volatiles Panel, Serum/Plasma				.					
2358U	1-Hydroxypyrene, Urine						.			
2411SP	Inhalants Panel, Solvents, Serum/Plasma				.					
2415SP	Inhalants Panel, Serum/Plasma				.					
2492U	Lead, Urine						.			
2557U	Mandelic Acid, Urine						.			
2570U	Manganese, Urine						.			
2661U	Metals/Metalloids Panel 1, Urine						.			
2662U	Metals/Metalloids Panel 2, Urine						.			
2663U	Metals/Metalloids Panel 3, Urine						.			
2670U	Mercury, Urine						.			
3090U	Molybdenum, Urine						.			
3100U	t,t-Muconic Acid, Urine						.			
3140U	Nickel, Urine						.			
3384U	Pentachlorophenol, Urine						.			

NMS Labs

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Database Changes - Summary

Test Code	Test Name	New Test	Method/CPT code	Units	Scope	Specimen Reqs	Stability	Discontinued	Reference Comment	Misc.
3621U	Phenol Exposure, Urine					.	.			
4180U	Selenium, Urine						.			
4186B	Sibutramine and Metabolites, Blood	.								
4186SP	Sibutramine and Metabolites, Serum/Plasma	.								
4186U	Sibutramine and Metabolites, Urine	.								
4211B	Stiripentol, Blood	.								
4211SP	Stiripentol, Serum/Plasma	.								
4211U	Stiripentol, Urine	.								
4238U	Sulfide Exposure Biouptake Marker, Urine						.			
4370U	Thallium, Urine						.			
4440U	Thiocyanate, Urine						.			
4472U	Thiosulfate, Urine						.			
4512U	Toluene Exposure, Urine						.			
4513U	Toluene Exposure, Urine						.			
4765U	Vanadium, Urine						.			
4778U	Vinyl Chloride Metabolite, Urine						.			
4844U	Zinc, Urine						.			
5030U	Uranium, Depleted Confirmation, Urine							.		
6108U	Cadmium Exposure Profile (OSHA), Urine						.			
6303U	Firefighter Core Baseline Profile, Urine						.			
6317U	Semi Conductor Panel, Urine						.			
6375U	Metals Panel, Urine (CSA)						.			
7630SP	Metanephrine, Serum/Plasma	.								
7643SP	Normetanephrine, Serum/Plasma	.								
7645SP	Metanephrines Fractionated, Serum/Plasma	.								
9230U	Uranium - Total and Depleted Screen, Urine							.		

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NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code
7630SP	Metanephrine, Serum/Plasma			
	Scope of Analysis: Metanephrine	10	pg/mL	LC-MS/MS (83789)
	Reference Comment: Reference Intervals for patients: Up to age 17 years: Normotensive children: 10 - 95 pg/mL Age 18 years and above: Hypertensive adults: 12 - 72 pg/mL Normotensive adults: 12 - 67 pg/mL			
	Specimen Requirements: Specimen Requirements: 0.5 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: Green top tube (Sodium Heparin), Lavender top tube (EDTA), Red top tube (no additive) Light Protection: Not Required Special Handling: None Rejection Criteria: Received Room Temperature.			
	Stability: Room Temperature: 1 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 21 day(s)			
7645SP	Metanephrines Fractionated, Serum/Plasma			
	Scope of Analysis: Metanephrine	10	pg/mL	LC-MS/MS (83789)
	Reference Comment: Reference Intervals for patients: Up to age 17 years: Normotensive children: 10 - 95 pg/mL Age 18 years and above: Hypertensive adults: 12 - 72 pg/mL Normotensive adults: 12 - 67 pg/mL			
	Scope of Analysis: Normetanephrine	20	pg/mL	LC-MS/MS (83789)
	Reference Comment: Reference Intervals for patients: Up to age 17 years: Normotensive children: 22 - 83 pg/mL Age 18 years and above: Hypertensive adults: 24 - 145 pg/mL Normotensive adults: 18 - 101 pg/mL			
	Specimen Requirements: Specimen Requirements: 0.5 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: Green top tube (Sodium Heparin), Lavender top tube (EDTA), Red top tube (no additive) Light Protection: Not Required Special Handling: None Rejection Criteria: Received Room Temperature.			
	Stability: Room Temperature: 1 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 21 day(s)			

NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code	
7643SP	Normetanephrine, Serum/Plasma				
	Scope of Analysis:	Normetanephrine	20	pg/mL	LC-MS/MS (83789)
	Reference Comment:	Reference Intervals for patients: Up to age 17 years: Normotensive children: 22 - 83 pg/mL Age 18 years and above: Hypertensive adults: 24 - 145 pg/mL Normotensive adults: 18 - 101 pg/mL			
	Specimen Requirements:	Specimen Requirements: 0.5 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: Green top tube (Sodium Heparin), Lavender top tube (EDTA), Red top tube (no additive) Light Protection: Not Required Special Handling: None Rejection Criteria: Received Room Temperature.			
	Stability:	Room Temperature: 1 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 21 day(s)			
4186B	Sibutramine and Metabolites, Blood				
	Scope of Analysis:	Sibutramine	0.1	ng/mL	LC-MS/MS (83789)
	Reference Comment:	Sibutramine is an amphetamine-like compound used in appetite suppression and weight control. Following a 15 mg oral dose, peak plasma concentrations of sibutramine of 6.5 ng/mL were measured at 1.5 hours. The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.			
	Scope of Analysis:	Desmethysibutramine	0.1	ng/mL	
	Reference Comment:	Desmethysibutramine and Didesmethysibutramine peaked at 2 to 5 hours, with concentrations of 3 - 5 and 8 - 10 ng/mL respectively.			
	Scope of Analysis:	Didesmethysibutramine	0.1	ng/mL	
	Reference Comment:	Desmethysibutramine and Didesmethysibutramine peaked at 2 to 5 hours, with concentrations of 3 - 5 and 8 - 10 ng/mL respectively.			
	Specimen Requirements:	Specimen Requirements: 2 mL Blood Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: Lavender top tube (EDTA).			
	Stability:	Room Temperature: 14 day(s) Refrigerated: 14 day(s) Frozen (-20 °C): 14 day(s)			

NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code
4186SP	Sibutramine and Metabolites, Serum/Plasma			
	Scope of Analysis: Sibutramine	0.1	ng/mL	LC-MS/MS (83789)
	Reference Comment: Sibutramine is an amphetamine-like compound used in appetite suppression and weight control. Following a 15 mg oral dose, peak plasma concentrations of sibutramine of 6.5 ng/mL were measured at 1.5 hours.			
	Scope of Analysis: Desmethysibutramine	0.1	ng/mL	
	Reference Comment: Desmethysibutramine and Didesmethysibutramine peaked at 2 to 5 hours, with concentrations of 3 - 5 and 8 - 10 ng/mL respectively.			
	Scope of Analysis: Didesmethysibutramine	0.1	ng/mL	
	Reference Comment: Desmethysibutramine and Didesmethysibutramine peaked at 2 to 5 hours, with concentrations of 3 - 5 and 8 - 10 ng/mL respectively.			
	Specimen Requirements: Specimen Requirements: 2 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines. Rejection Criteria: Received Room Temperature. Polymer gel separation tube (SST or PST).			
	Stability: Room Temperature: 3 day(s) Refrigerated: 14 day(s) Frozen (-20 °C): 28 day(s)			
4186U	Sibutramine and Metabolites, Urine			
	Scope of Analysis: Sibutramine	0.1	ng/mL	LC-MS/MS (83789)
	Reference Comment: Sibutramine is an amphetamine-like compound used in appetite suppression and weight control.			
	Scope of Analysis: Desmethysibutramine	0.1	ng/mL	
	Scope of Analysis: Didesmethysibutramine	0.1	ng/mL	
	Specimen Requirements: Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: None			
	Stability: Room Temperature: 7 day(s) Refrigerated: 28 day(s) Frozen (-20 °C): 28 day(s)			

NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code	
4211B	Stiripentol, Blood				
	Scope of Analysis:	Stiripentol	0.1	mcg/mL	HPLC (82491)
	Reference Comment:	<p>A dosing rate from 600 to 1200 mg/day resulted in a 253% rise in serum steady-state concentration from 0.32 +/- 0.21 to 1.13 +/- 0.54 mg/L. Increasing the dose from 1200 to 2400 mg/day resulted in a 397% rise in serum steady-state concentration to 5.62 +/- 3.03 mg/L.</p> <p>The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.</p>			
	Specimen Requirements:	<p>Specimen Requirements: 1 mL Blood Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: None</p>			
	Stability:	<p>Room Temperature: 7 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)</p>			
4211SP	Stiripentol, Serum/Plasma				
	Scope of Analysis:	Stiripentol	0.1	mcg/mL	HPLC (82491)
	Reference Comment:	<p>A dosing rate from 600 to 1200 mg/day resulted in a 253% rise in serum steady-state concentration from 0.32 +/- 0.21 to 1.13 +/- 0.54 mg/L. Increasing the dose from 1200 to 2400 mg/day resulted in a 397% rise in serum steady-state concentration to 5.62 +/- 3.03 mg/L.</p>			
	Specimen Requirements:	<p>Specimen Requirements: 1 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines. Rejection Criteria: Polymer gel separation tube (SST or PST).</p>			
	Stability:	<p>Room Temperature: 14 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)</p>			

Changes effective:
November 2, 2009

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NEW TESTS

Test Code	Test Name	Reporting Limit	Units	Method / CPT Code	
4211U	Stiripentol, Urine				
	Scope of Analysis:	Stiripentol	0.1	mcg/mL	HPLC (82491)
	Reference Comment:	Stiripentol is an anticonvulsant. No urine reference concentration data are available.			
	Specimen Requirements:	Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: Received Room Temperature.			
	Stability:	Room Temperature: 3 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)			

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2358U	1-Hydroxypyrene, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	1-Hydroxypyrene	ng/mL	LC-MS/MS (82542)
	1-Hydroxypyrene (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Frozen Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: Received Room Temperature. Received Refrigerated.		
Stability:	Room Temperature: Not Stable Refrigerated: Not Stable Frozen (-20 C): 14 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		
0060U	Acetoacetate, Urine		
	Scope: Acetoacetate	mcg/mL	GC (82010)
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: Received Room Temperature.		
Stability:	Room Temperature: 2 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 7 day(s) Frozen (-70 °C): 29 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Frozen was removed. Refrigerated was added. Stability was changed.		

Changes effective:
November 2, 2009

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code	
0406SP	Anticoagulant Poisoning Panel (Qualitative), Serum/Plasma			
	Scope:	Warfarin	ng/mL	
		Dicumarol	ng/mL	
		Diphacinone	ng/mL	
		Chlorophacinone	ng/mL	LC-MS/MS (83788)
		Difenacoum	ng/mL	
		Brodifacoum	ng/mL	
		Bromadiolone	ng/mL	
Specimen Requirements:	Specimen Requirements: 2 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines. Rejection Criteria: Polymer gel separation tube (SST or PST).			
Stability:	Room Temperature: 14 day(s) Refrigerated: 14 day(s) Frozen (-20 °C): 14 day(s)			
Summary of Changes:	For Quality Improvement purposes the following changes were made. Requested volume was increased.			
0410U	Antimony, Urine			
	Scope:	Creatinine	mg/L	Colorimetry (82570)
		Antimony	mcg/L	ICP/MS (83018)
		Antimony (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None			
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)			
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.			

TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
0785SP	Aromatic Solvents Exposure Panel, Serum/Plasma		
	Scope:	Toluene	mcg/mL
		o-Xylene	mcg/mL
		p-Xylene	mcg/mL
		m-Xylene	mcg/mL
		Ethyl Benzene	mcg/mL
		Styrene	mcg/mL
Specimen Requirements:	Specimen Requirements: 2 mL Serum or Plasma Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines. Rejection Criteria: Polymer gel separation tube (SST or PST).		
Stability:	Room Temperature: Undetermined Refrigerated: Undetermined Frozen (-20 °C): Undetermined		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Benzene was removed.		
0468U	Arsenic, Total Inorganic, Urine		
	Scope:	Creatinine	mg/L
		Arsenic, Total Inorganic	mcg/L
		Arsenic, Total Inorganic (Creatinine corrected)	mcg/g Creat
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 28 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
0460U	Arsenic, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Arsenic	mcg/L	ICP/MS (82175)
	Arsenic (Creatinine corrected)	mcg/g Creat	
Specimen Requirements: Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None			
Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)			
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			
0529U	Bentiromide - PABA Test, Urine		
	Scope: PABA	mg/mL	SP (84311)
Specimen Requirements: Specimen Requirements: 5 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Administer drug following overnight fast. Have patient urinate prior to drug administration. Collect Urine for next 6 hours. Rejection Criteria: None			
Stability: Room Temperature: Undetermined Refrigerated: Undetermined Frozen (-20 °C): Undetermined			
Summary of Changes: For Quality Improvement purposes the following changes were made. Percent Recovery was removed. Special Handling was updated.			

Changes effective:
November 2, 2009

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
0543U	Benzene OSHA Exposure Panel, Urine		
	Scope: Specific Gravity		Refractometer (81002)
	Phenol	mg/L	GC (84600)
	Phenol (Specific Gravity corrected)	mg/L	GC (84600)
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Urine samples preserved with Benzoic Acid are unsuitable for analysis. Preservative-free Urine samples are recommended. Rejection Criteria: Received Room Temperature.		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)	
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		
0638U	Beryllium, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Beryllium	mcg/L	ICP/MS (83018)
	Beryllium (Creatinine corrected)	mcg/g Creat	ICP/MS (83018)
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)	
Summary of Changes:	For Quality Improvement purposes the following changes were made. Special Handling was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
6108U	Cadmium Exposure Profile (OSHA), Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Cadmium	mcg/L	ICP/MS (82300)
	Cadmium (Creatinine corrected)	mcg/g Creat	
	Beta-2 Microglobulin	mcg/L	EIA (82232)
Beta-2 Microglobulin (Creatinine corrected)	mcg/g Creat		
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Frozen Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: Received Room Temperature. Received Refrigerated.		
	Stability: Room Temperature: Not Stable Refrigerated: 1 day(s) Frozen (-20 C): 7 day(s)		
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.	
0921U	Cadmium, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Cadmium	mcg/L	ICP/MS (82300)
	Cadmium (Creatinine corrected)	mcg/g Creat	
	Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None	
	Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)		
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.	

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
0995U	Carbon Disulfide Exposure Biouptake, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	2-Thiothiazolidine-4-Carboxylic Acid	mg/L	
	2-Thiothiazolidine-4-Carboxylic Acid (Creatinine corrected)	mg/g Creat	LC-MS/MS (82542)
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Rejection Criteria: Received Room Temperature.		
Stability:	Room Temperature: 1 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 1 month(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		
1261U	Chromium, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Chromium	mcg/L	GFAAS (82495)
	Chromium (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

Changes effective:
November 2, 2009

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
1348U	Creatinine, Urine		
	Scope: Creatinine Specimen Requirements: Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 12 month(s)	mg/L	Colorimetry (82570)
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			
2029U	Ethylbenzene Exposure Biouptake, Urine		
	Scope: Creatinine Mandelic Acid Mandelic Acid (Creatinine corrected) Specimen Requirements: Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift at end of work week. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)	mg/L g/L g/g Creat	Colorimetry (82570) IC (83921)
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code	
6303U	Firefighter Core Baseline Profile, Urine			
	Scope:	Creatinine	mg/L	Colorimetry (82570)
		Cadmium	mcg/L	ICP/MS (82300)
		Cadmium (Creatinine corrected)	mcg/g Creat	
		Antimony	mcg/L	ICP/MS (83018)
		Antimony (Creatinine corrected)	mcg/g Creat	
		Mercury	mcg/L	ICP/MS (83825)
		Mercury (Creatinine corrected)	mcg/g Creat	
	Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.			
2090U	Fluoride, Urine			
	Scope:	Creatinine	mg/L	Colorimetry (82570)
		Fluoride	mg/L	ISE (82735)
		Fluoride (Creatinine corrected)	mg/g Creat	
	Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 30 day(s)		
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code	
2243U	Heavy Metals Panel 4, Urine (CSA)			
	Scope:	Creatinine	mg/L	Colorimetry (82570)
		Bismuth	mcg/L	ICP/MS (83018)
		Arsenic	mcg/L	ICP/MS (82175)
		Arsenic (Creatinine corrected)	mcg/g Creat	
		Antimony	mcg/L	ICP/MS (83018)
		Antimony (Creatinine corrected)	mcg/g Creat	
		Mercury	mcg/L	ICP/MS (83825)
	Mercury (Creatinine corrected)	mcg/g Creat		
Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)			
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.			

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code	
2241U	Heavy Metals Panel 5A, Urine (CSA)			
	Scope:	Creatinine	mg/L	Colorimetry (82570)
		Lead	mcg/L	ICP/MS (83655)
		Lead (Creatinine corrected)	mcg/g Creat	
		Arsenic	mcg/L	ICP/MS (82175)
		Arsenic (Creatinine corrected)	mcg/g Creat	
		Strontium	mcg/L	ICP/MS (83018)
		Strontium (Creatinine corrected)	mcg/g Creat	
		Mercury	mcg/L	ICP/MS (83825)
		Mercury (Creatinine corrected)	mcg/g Creat	
	Chromium	mcg/L	GFAAS (82495)	
	Chromium (Creatinine corrected)	mcg/g Creat		
Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)			
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.			

TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code	
2242U	Heavy Metals Panel 5B, Urine (CSA)			
	Scope:	Creatinine	mg/L	Colorimetry (82570)
		Bismuth	mcg/L	ICP/MS (83018)
		Arsenic	mcg/L	ICP/MS (82175)
		Arsenic (Creatinine corrected)	mcg/g Creat	
		Selenium	mcg/L	ICP/MS (84255)
		Selenium (Creatinine corrected)	mcg/g Creat	ICP/MS (83018)
		Tellurium	mcg/L	
		Mercury	mcg/L	
		Mercury (Creatinine corrected)	mcg/g Creat	ICP/MS (83825)
Specimen Requirements:	Specimen Requirements: 7 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None			
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)			
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.			
2300U	Hippuric Acid, Urine			
	Scope:	Creatinine	mg/L	Colorimetry (82570)
		Hippuric Acid	g/L	ISE (83921)
		Hippuric Acid (Creatinine corrected)	g/g Creat	
	Specimen Requirements:	Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 2 month(s)		
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2321SP	Hydrocarbon and Oxygenated Volatiles Panel, Serum/Plasma		
	Scope:		
	Ethyl Benzene	mcg/mL	
	Styrene	mcg/mL	
	Toluene	mcg/mL	
	Xylenes (o,m,p)	mcg/mL	
	n-Heptane	mcg/mL	
	n-Hexane	mcg/mL	
	Methylpentanes (2- and 3- Isomers)	mcg/mL	
	Pentane	mcg/mL	
	n-Butanol	mcg/mL	
	Ethanol	mg/dL	
	Isopropanol	mg/dL	
	n-Propanol	mg/dL	GC (84600)
	Methanol	mg/dL	
	Acetaldehyde	mg/dL	
	Acetone	mg/dL	
	Methyl Ethyl Ketone	mcg/mL	
	Methyl Isobutyl Ketone	mcg/mL	
	Methyl n-Butyl Ketone	mcg/mL	
	Ethyl Acetate	mcg/mL	
	Diethyl Ether	mcg/mL	
	Methyl Acrylate	mcg/mL	
	Methyl Tertiary Butyl Ether	mcg/mL	
	Specimen Requirements:		
	2 mL Serum or Plasma -- Chill and ship with cold pack. Ensure that container remains tightly sealed. The use of serum separator tubes is not acceptable. Submission of a serum separator tube will result in cancellation.		
	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.		
	Summary of Changes:		
	For Quality Improvement purposes the following changes were made. Benzene was removed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2415SP	Inhalants Panel, Serum/Plasma		
	Scope:		
	Toluene	mcg/mL	
	Xylene	mcg/mL	
	Acetone	mg/dL	
	Ethyl Acetate	mcg/mL	
	Methyl Ethyl Ketone	mcg/mL	
	Iso-Amyl Alcohol	mcg/mL	
	n-Amyl Alcohol	mcg/mL	
	Iso-Butyl Alcohol	mcg/mL	
	n-Butyl Alcohol	mcg/mL	
	Cyclopropane	mcg/mL	
	Ethyl Ether	mcg/mL	
	Chloromethane	mcg/mL	
	Dichloromethane	mcg/mL	GC (84600)
	Chloroform	mcg/mL	
	Carbon Tetrachloride	mcg/mL	
	Chloroethane	mcg/mL	
	Dichloroethane	mcg/mL	
	Trichloroethane	mcg/mL	
	Tetrachloroethane	mcg/mL	
	Trichlorofluoromethane	mcg/mL	
	Dichlorodifluoromethane	mcg/mL	
	Trichlorotrifluoroethane	mcg/mL	
	Methanol	mg/dL	
	Ethanol	mg/dL	
	Isopropanol	mg/dL	
	Specimen Requirements:	2 mL Serum or Plasma ~ Chill and ship with cold pack. Ensure that container remains tightly sealed. The use of serum separator tubes is not acceptable. Submission of a serum separator tube will result in cancellation.	
	Stability:	Room Temperature: Undetermined Refrigerated: Undetermined Frozen (-20 °C): Undetermined	
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Benzene was removed.	

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2411SP	Inhalants Panel, Solvents, Serum/Plasma		
	Scope:		
	Acetone	mg/dL	
	n-Butyl Alcohol	mcg/mL	
	Amyl Alcohol	mcg/mL	
	Iso-Butyl Alcohol	mcg/mL	
	Iso-Amyl Alcohol	mcg/mL	
	Ethanol	mg/dL	
	Ethyl Acetate	mcg/mL	
	Ethyl Ether	mcg/mL	
	Heptane	mcg/mL	
	Hexane	mcg/mL	GC (84600)
	Isopropanol	mg/dL	
	Methanol	mg/dL	
	Methyl Ethyl Ketone	mcg/mL	
	Pentane	mcg/mL	
	Styrene	mcg/mL	
	Toluene	mcg/mL	
	o-Xylene	mcg/mL	
	m-Xylene	mcg/mL	
	p-Xylene	mcg/mL	
Specimen Requirements:	2 mL Serum or Plasma -- Chill and ship with cold pack. Ensure that container remains tightly sealed. The use of serum separator tubes is not acceptable. Submission of a serum separator tube will result in cancellation.		
Stability:	Room Temperature: Undetermined Refrigerated: Undetermined Frozen (-20 °C): Undetermined		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Benzene was removed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2492U	Lead, Urine		
	Scope:	Creatinine mg/L	Colorimetry (82570)
		Lead mcg/L	ICP/MS (83655)
		Lead (Creatinine corrected) mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		
2557U	Mandelic Acid, Urine		
	Scope:	Creatinine mg/L	Colorimetry (82570)
		Mandelic Acid g/L	IC (83921)
		Mandelic Acid (Creatinine corrected) g/g Creat	
Specimen Requirements:	Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift at end of work week. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2570U	Manganese, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Manganese	mcg/L	ICP/MS (83785)
	Manganese (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		
2670U	Mercury, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Mercury	mcg/L	ICP/MS (83825)
	Mercury (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2240U	Metals/Metalloids Panel, Urine (CSA)		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Scope: Bismuth	mcg/L	ICP/MS (83018)
	Arsenic, Total Inorganic	mcg/L	ICP/MS (82175)
	Arsenic, Total Inorganic (Creatinine corrected)	mcg/g Creat	
	Cadmium	mcg/L	ICP/MS (82300)
	Cadmium (Creatinine corrected)	mcg/g Creat	
	Beryllium	mcg/L	ICP/MS (83018)
	Beryllium (Creatinine corrected)	mcg/g Creat	
	Mercury	mcg/L	ICP/MS (83825)
	Mercury (Creatinine corrected)	mcg/g Creat	
	Chromium	mcg/L	GFAAS (82495)
Chromium (Creatinine corrected)	mcg/g Creat		
Specimen Requirements:	Specimen Requirements: 9 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2661U	Metals/Metalloids Panel 1, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Arsenic	mcg/L	ICP/MS (82175)
	Arsenic (Creatinine corrected)	mcg/g Creat	
	Lead	mcg/L	ICP/MS (83655)
	Lead (Creatinine corrected)	mcg/g Creat	
	Mercury	mcg/L	ICP/MS (83825)
	Mercury (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2662U	Metals/Metalloids Panel 2, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Thallium	mcg/L	ICP/MS (83018)
	Thallium (Creatinine corrected)	mcg/g Creat	
	Cadmium	mcg/L	ICP/MS (82300)
	Cadmium (Creatinine corrected)	mcg/g Creat	
	Manganese	mcg/L	ICP/MS (83785)
	Manganese (Creatinine corrected)	mcg/g Creat	
Nickel	mcg/L	ICP/MS (83885)	
Nickel (Creatinine corrected)	mcg/g Creat		
Specimen Requirements:	Specimen Requirements: 5 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
2663U	Metals/Metalloids Panel 3, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Arsenic	mcg/L	ICP/MS (82175)
	Arsenic (Creatinine corrected)	mcg/g Creat	
	Lead	mcg/L	ICP/MS (83655)
	Lead (Creatinine corrected)	mcg/g Creat	
	Cadmium	mcg/L	ICP/MS (82300)
	Cadmium (Creatinine corrected)	mcg/g Creat	
	Mercury	mcg/L	ICP/MS (83825)
	Mercury (Creatinine corrected)	mcg/g Creat	
Chromium	mcg/L	GFAAS (82495)	
Chromium (Creatinine corrected)	mcg/g Creat		
Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code	
6375U	Metals Panel, Urine (CSA)			
	Scope: Creatinine	mg/L	Colorimetry (82570)	
	Arsenic, Total Inorganic	mcg/L	ICP/MS (82175)	
	Arsenic, Total Inorganic (Creatinine corrected)	mcg/g Creat		
	Cadmium	mcg/L	ICP/MS (82300)	
	Cadmium (Creatinine corrected)	mcg/g Creat		
	Chromium	mcg/L	GFAAS (82495)	
	Chromium (Creatinine corrected)	mcg/g Creat		
	Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.			
2233U	Metals Panel 2, Urine (CSA)			
	Scope: Creatinine	mg/L	Colorimetry (82570)	
	Arsenic	mcg/L	ICP/MS (82175)	
	Arsenic (Creatinine corrected)	mcg/g Creat		
	Mercury	mcg/L	ICP/MS (83825)	
	Mercury (Creatinine corrected)	mcg/g Creat		
	Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

Changes effective:
November 2, 2009

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
3090U	Molybdenum, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Molybdenum	mcg/L	ICP/MS (83018)
	Molybdenum (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:		For Quality Improvement purposes the following changes were made. Stability was changed.	
3140U	Nickel, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Nickel	mcg/L	ICP/MS (83885)
	Nickel (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:		For Quality Improvement purposes the following changes were made. Stability was changed.	

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
1352U	o-Cresol, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	o-Cresol	mg/L	GC (846005)
	o-Cresol (Creatinine corrected)	mg/g Creat	
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Samples preserved with Benzoic Acid are unsuitable for analysis. Preservative-free Urine samples are recommended. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 6 month(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		
3384U	Pentachlorophenol, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Pentachlorophenol	mcg/mL	GC (82441)
	Pentachlorophenol (Creatinine corrected)	mg/g Creat	
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample prior to the last shift of the work week. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 12 month(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
3621U	Phenol Exposure, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Phenol - Total	mg/L	GC (84600)
	Phenol - Total (Creatinine corrected)	mg/g Creat	
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Urine samples preserved with Benzoic Acid are unsuitable for analysis. Preservative-free Urine samples are recommended. Rejection Criteria: Received Room Temperature.		
	Stability:	Room Temperature: 4 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 12 month(s)	
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Refrigerated Temperature was added. Stability was changed.	
4180U	Selenium, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Selenium	mcg/L	ICP/MS (84255)
	Selenium (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 1 month(s)	
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.	

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
6317U	Semi Conductor Panel, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Arsenic	mcg/L	ICP/MS (82175)
	Arsenic (Creatinine corrected)	mcg/g Creat	
	Selenium	mcg/L	ICP/MS (84255)
	Selenium (Creatinine corrected)	mcg/g Creat	
	Cadmium	mcg/L	ICP/MS (82300)
	Cadmium (Creatinine corrected)	mcg/g Creat	
	Tellurium	mcg/L	ICP/MS (83018)
	Tellurium (Creatinine corrected)	mcg/g Creat	
	Mercury	mcg/L	ICP/MS (83825)
	Mercury (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Avoid seafood consumption for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 7 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
4238U	Sulfide Exposure Biouptake Marker, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Thiosulfate	mcg/mL	IC (82491)
	Thiosulfate (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Rejection Criteria: Received Room Temperature.		
	Stability:	Room Temperature: 3 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 3 month(s)	
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			
3100U	t,t-Muconic Acid, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	t,t-Muconic Acid	mcg/L	LC-MS/MS (82542)
	t,t-Muconic Acid (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Add 1 drop of 12 N HCl. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)	
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
4370U	Thallium, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Thallium	mcg/L	ICP/MS (83018)
	Thallium (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)	
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			
4440U	Thiocyanate, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Thiocyanate	mcg/mL	IC (84430)
	Thiocyanate (Creatinine corrected)	mg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 6 month(s)	
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
4472U	Thiosulfate, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Thiosulfate	mcg/mL	IC (82491)
	Thiosulfate (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 6 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: None Rejection Criteria: Received Room Temperature.		
	Stability:	Room Temperature: 3 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 3 month(s)	
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			
4512U	Toluene Exposure, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Hippuric Acid	g/L	IC (83921)
	Hippuric Acid (Creatinine corrected)	g/g Creat	
Specimen Requirements:	Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 2 month(s)	
Summary of Changes: For Quality Improvement purposes the following changes were made. Stability was changed.			

TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
4513U	Toluene Exposure, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	o-Cresol	mg/L	GC (84600)
	o-Cresol (Creatinine corrected)	mg/g Creat	
Specimen Requirements:	Specimen Requirements: 4 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Samples preserved with Benzoic Acid are unsuitable for analysis. Preservative-free Urine samples are recommended. Rejection Criteria: None		
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 6 month(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		
0470UH	Total, Inorganic Arsenic, 24 Hour Urine (+Creatinine)		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Urine Volume	L	
	Arsenic, Total Inorganic	mcg/L	ICP/MS (82175)
	Arsenic, Total Inorganic (Creatinine corrected)	mcg/g Creat	
	Arsenic, Total Inorganic	mcg/24 hr	
Specimen Requirements:	Specimen Requirements: 4 mL 24 Hour Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 28 day(s)		
Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code
4765U	Vanadium, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Vanadium	mcg/L	GFAAS (83018)
	Vanadium (Creatinine corrected)	mcg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:		For Quality Improvement purposes the following changes were made. Stability was changed.	
4778U	Vinyl Chloride Metabolite, Urine		
	Scope: Creatinine	mg/L	Colorimetry (82570)
	Thiodiglycolic Acid	mcg/mL	LC-MS/MS (82542)
	Thiodiglycolic Acid (Creatinine corrected)	mg/g Creat	
Specimen Requirements:	Specimen Requirements: 3 mL Urine Transport Temperature: Refrigerated Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test. Light Protection: Not Required Special Handling: Collect sample at end of shift. Rejection Criteria: None Stability: Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
Summary of Changes:		For Quality Improvement purposes the following changes were made. Stability was changed.	

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TEST CHANGES

Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Units	Method / CPT Code	
4844U	Zinc, Urine			
		Scope: Creatinine	mg/L	Colorimetry (82570)
		Zinc	mcg/L	ICP/MS (84630)
		Zinc(Creatinine corrected)	mcg/g Creat	
	Specimen Requirements:	Specimen Requirements: 2 mL Urine Transport Temperature: Refrigerated Specimen Container: Plastic container (Acid washed or Trace metal-free) Light Protection: Not Required Special Handling: Unpreserved urine should be refrigerated immediately and analyzed within 1 week of collection. Acceptable preservatives include: Trace Metal Free Hydrochloric Acid or Nitric Acid (0.1 mL of 12M acid/10 mL urine). Avoid exposure to gadolinium-based contrast media for 48 hours prior to sample collection. Rejection Criteria: None		
	Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 C): 14 day(s)		
	Summary of Changes:	For Quality Improvement purposes the following changes were made. Stability was changed.		

DISCONTINUED TESTS

Test Code	Test Name	Alternative Test
0060B	Acetoacetate, Blood	0060SP Acetoacetate, Serum/Plasma
5030U	Uranium, Depleted Confirmation, Urine	No alternate test available
9230U	Uranium - Total and Depleted Screen, Urine	No alternate test available

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REFERENCE COMMENT CHANGES

Test Code	Test Name / Compound	New Reference Comment
0529U	Bentiromide - PABA Test, Urine <ul style="list-style-type: none"><li data-bbox="261 449 444 478">• PABA	<p>This analysis may be used to evaluate pancreatic function. Normal range: 50% recovery and greater in normal healthy patients based upon a bentiromide dose of 500 mg.</p> <p>To calculate the % Recovery, based on the reported PABA value, use the following formula:</p> $\% \text{ Recovery} = \text{PABA} \times \text{Total 6 hour Urine Volume} \times (2.95 / \text{Bentiromide Dose}) \times 100$ <p>Calculation is based on the following required units of measure: PABA value in mg/mL Total 6 hour Urine Volume in mL Bentiromide Dose in mg</p>