



Effective Date:

Monday, October 01, 2012

## New Tests and Test Updates

Modified Date: 07/18/2012

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 01, 2012

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**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.

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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.



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## New Tests and Test Updates

Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
2358U	1-Hydroxypyrene, Urine								•	
2053U	2-Butoxyethanol Occupational Exposure Monitoring, Urine					•			•	
0088U	Acetonitrile Exposure Profile, Urine					•			•	
0148U	Acrylonitrile Exposure Profile, Urine					•			•	
0273U	Aminophenol, para-, Urine								•	
9305U	Anabolic Steroids Screen, Urine				•	•			•	
0390U	Aniline Exposure, Urine								•	
4655B	Antidepressants Panel 1, Blood				•					
4655FL	Antidepressants Panel 1, Fluid				•					
4655SP	Antidepressants Panel 1, Serum/Plasma				•					
4655TI	Antidepressants Panel 1, Tissue				•					
4655U	Antidepressants Panel 1, Urine				•					
8700B	Antidepressants Panel, Blood				•					
8700FL	Antidepressants Panel, Fluid				•					
8700SP	Antidepressants Panel, Serum/Plasma				•					
8700TI	Antidepressants Panel, Tissue				•					
8700U	Antidepressants Panel, Urine				•					
9022SP	Antidepressants Screen - Expanded, Serum/Plasma				•					
9431B	Antidepressants Screen, Blood				•					
9431SP	Antidepressants Screen, Serum/Plasma				•					
9431TI	Antidepressants Screen, Tissue				•					
9431U	Antidepressants Screen, Urine				•					
0410U	Antimony, Urine					•			•	
2302U	Aromatic Solvent Metabolites Panel 1, Urine								•	
0457U	Aromatic Solvents Panel, Urine								•	
0468U	Arsenic, Total Inorganic, Urine					•			•	
0460U	Arsenic, Urine					•			•	
3101U	Benzene Metabolites Panel, Urine					•			•	
0638U	Beryllium, Urine					•			•	
0645FL	Bicarbonate, Fluid				•					
0645U	Bicarbonate, Urine				•					



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Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
6108U	Cadmium Exposure Profile (OSHA), Urine					•			•	
6109U	Cadmium Exposure Profile (OSHA), Urine								•	
0921U	Cadmium, Urine					•			•	
0995U	Carbon Disulfide Exposure (TTCA), Urine					•			•	
1111U	Chlorobenzene Exposure (p-Chlorophenol), Urine								•	
1273U	Chromium - Total, Urine (CSA)					•			•	
1261U	Chromium, Urine					•			•	
1348U	Creatinine, Urine					•			•	
3060U	Dimethylacetamide Metabolite, Urine								•	
3070U	Dimethylformamide (DMF) Exposure Panel, Urine								•	
1902B	Duexis®, Blood	•								
1902SP	Duexis®, Serum/Plasma	•								
2029U	Ethylbenzene Exposure Biouptake, Urine					•			•	
2056U	Ethylene Glycol Monoethyl Ether, Urine								•	
2054U	Ethylene Glycol Monomethyl Ether, Urine								•	
6303U	Firefighter Core Baseline Profile, Urine					•			•	
2090U	Fluoride, Urine					•			•	
2134U	Formic Acid, Urine					•			•	
2243U	Heavy Metals Panel 4, Urine (CSA)					•			•	
2241U	Heavy Metals Panel 5A, Urine (CSA)					•			•	
2242U	Heavy Metals Panel 5B, Urine (CSA)					•			•	
2280U	Hexacarbon Exposure Profile, Urine								•	
2306U	Hippuric Acid and Methylhippuric Acid, Urine								•	
2300U	Hippuric Acid, Urine					•			•	
2492U	Lead, Urine					•			•	
2557U	Mandelic Acid, Urine					•			•	
2570U	Manganese, Urine					•			•	
2670U	Mercury, Urine					•			•	
2233U	Metals Panel 2, Urine (CSA)					•			•	



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Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
1274U	Metals Panel 3 (Cobalt, Molybdenum, Nickel), Urine (CSA)					•			•	
2664U	Metals Panel 4 (Arsenic, Cadmium, Lead, Mercury), Urine					•			•	
2244U	Metals/Metalloids Panel (11), Urine (CSA)					•			•	
2661U	Metals/Metalloids Panel 1, Urine					•			•	
2662U	Metals/Metalloids Panel 2, Urine					•			•	
2663U	Metals/Metalloids Panel 3, Urine					•			•	
2240U	Metals/Metalloids Panel, Urine (CSA)					•			•	
2836U	Methanol Exposure Profile, Urine					•			•	
2973U	Methyl Bromide Exposure Profile, Urine					•			•	
2994U	Methylhippuric Acid, Urine								•	
3036U	Methyltin, Urine								•	
3090U	Molybdenum, Urine					•			•	
3095U	Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP), Urine					•			•	
3097U	Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP), Urine					•			•	
3096U	Mono-ethylhexyl phthalate (MEHP), Urine					•			•	
3098U	Mono-n-butyl phthalate (MNBP), Urine					•			•	
3145B	Nefazodone, Blood				•					
3145SP	Nefazodone, Serum/Plasma				•					
3145U	Nefazodone, Urine				•					
3140U	Nickel, Urine					•			•	
3185U	Nitrobenzene Exposure Monitoring, Urine								•	
3384U	Pentachlorophenol, Urine					•			•	
3621U	Phenol Exposure, Urine					•			•	
3099U	Phthalates Panel, Urine					•			•	
3795U	Pregabalin, Urine				•					
3475U	S-Phenylmercapturic Acid, Urine					•			•	
4180U	Selenium, Urine					•			•	
6317U	Semi Conductor Panel, Urine					•			•	
0872U	Solvent Profile, Urine								•	
4213U	Styrene Exposure Profile, Urine								•	



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Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
4238U	Sulfide Exposure Biouptake Marker, Urine					•			•	
4370U	Thallium, Urine					•			•	
4440U	Thiocyanate, Urine					•			•	
4472U	Thiosulfate, Urine					•			•	
4513U	Toluene Exposure, Urine					•			•	
0470UH	Total, Inorganic Arsenic, 24 Hour Urine (+Creatinine)					•			•	
9282B	Trazodone Screen, Blood				•					
9282SP	Trazodone Screen, Serum/Plasma				•					
9282TI	Trazodone Screen, Tissue				•					
9282U	Trazodone Screen, Urine				•					
4535FL	Trazodone, Fluid				•					
4535SP	Trazodone, Serum/Plasma				•					
4535TI	Trazodone, Tissue				•					
4535U	Trazodone, Urine				•					
4658U	Trichloroethylene Exposure, Urine								•	
4765U	Vanadium, Urine					•			•	
4778U	Vinyl Chloride Metabolite, Urine					•			•	
4821U	Xylene Exposure Panel, Urine								•	
4844U	Zinc, Urine					•			•	
1352U	o-Cresol, Urine					•			•	
3100U	t,t-Muconic Acid, Urine					•			•	



# New Tests and Test Updates

## New Tests

<b>1902B</b>	<b>Duexis®, Blood</b>	<b>Effective Immediately</b>
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Scope of Analysis: Famotidine [HPLC], Ibuprofen [HPLC]  
 Method(s): High Performance Liquid Chromatography (HPLC)  
 Purpose: Therapeutic Drug Monitoring  
 Category: Antagonist (H2 Receptor), Analgesic, Anti-Inflammatory  
 Specimen Requirements: 5 mL Blood  
 Minimum Volume: 2.5 mL  
 Special Handling: None  
 Specimen Container: Lavender top tube (EDTA)  
 Transport Temperature: Frozen  
 Light Protection: Not Required  
 Rejection Criteria: Received Room Temperature. Received Refrigerated.  
 Stability: Room Temperature: 2 day(s)  
 Refrigerated: 4 day(s)  
 Frozen (-20 °C): 7 day(s)

**Method: High Performance Liquid Chromatography (HPLC)**

Set-Up Days / TAT: Monday Wednesday Friday 2nd Shift 3 days (after set-up)  
 CPT Code: 82491

Compound Name / Alias	Units	RL	Reference Comment
Ibuprofen Advil®; Motrin®; Nuprin®	mcg/mL	3.0	Therapeutic Range: 25-50 mcg/mL  Approximately 90-99% of a dose of ibuprofen is bound to plasma proteins; protein binding appears to be saturable at concentrations exceeding 20 mcg/mL, such binding is nonlinear.

**Method: High Performance Liquid Chromatography (HPLC)**

Set-Up Days / TAT: Monday-Sunday 7 days (after set-up)  
 CPT Code: 82491

Compound Name / Alias	Units	RL	Reference Comment
Famotidine Pepcid®	ng/mL	20	Therapeutic Range: 25-50 ng/mL  Approximately 15-20% of a dose of famotidine is bound to plasma proteins.

<b>1902SP</b>	<b>Duexis®, Serum/Plasma</b>	<b>Effective Immediately</b>
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Scope of Analysis: Famotidine [HPLC], Ibuprofen [HPLC]  
 Method(s): High Performance Liquid Chromatography (HPLC)  
 Purpose: Therapeutic Drug Monitoring  
 Category: Antagonist (H2 Receptor), Analgesic, Anti-Inflammatory  
 Specimen Requirements: 4 mL Serum or Plasma  
 Minimum Volume: 1.6 mL  
 Special Handling: Serum: Collect sample in Red top tube  
 Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
 Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.  
 Specimen Container: Plastic container (preservative-free)



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## New Tests

Transport Temperature: Frozen  
Light Protection: Not Required  
Rejection Criteria: Received Room Temperature. Received Refrigerated. Polymer gel separation tube (SST or PST).  
Stability: Room Temperature: 2 day(s)  
Refrigerated: 4 day(s)  
Frozen (-20 °C): 7 day(s)

**Method: High Performance Liquid Chromatography (HPLC)**

Set-Up Days / TAT: Monday Wednesday Friday 2nd Shift 3 days (after set-up)

CPT Code: 82491

Compound Name / Alias	Units	RL	Reference Comment
Ibuprofen Advil®; Motrin®; Nuprin®	mcg/mL	3.0	Therapeutic Range: 25-50 mcg/mL  Approximately 90-99% of a dose of ibuprofen is bound to plasma proteins; protein binding appears to be saturable at concentrations exceeding 20 mcg/mL, such binding is nonlinear.

**Method: High Performance Liquid Chromatography (HPLC)**

Set-Up Days / TAT: Monday-Sunday 7 days (after set-up)

CPT Code: 82491

Compound Name / Alias	Units	RL	Reference Comment
Famotidine Pepcid®	ng/mL	10	Therapeutic Range: 25-50 ng/mL  Approximately 15-20% of a dose of famotidine is bound to plasma proteins.



# New Tests and Test Updates

## Test Changes

### 2358U 1-Hydroxypyrene, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) LC-MS/MS (83789): 1-Hydroxypyrene, 1-Hydroxypyrene (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2053U 2-Butoxyethanol Occupational Exposure Monitoring, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC/MS (82542): 2-Butoxyacetic Acid - Total, 2-Butoxyacetic Acid - Total (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0088U Acetonitrile Exposure Profile, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: GC (83921): Formic Acid, Formic Acid (Creatinine corrected)  
Method (CPT Code) IC (84430): Thiocyanate, Thiocyanate (Creatinine corrected)  
Colorimetry (82570): Creatinine





# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0148U Acrylonitrile Exposure Profile, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: GC (83921): Formic Acid, Formic Acid (Creatinine corrected)  
Method (CPT Code) IC (84430): Thiocyanate, Thiocyanate (Creatinine corrected)  
Colorimetry (82570): Creatinine

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0273U Aminophenol, para-, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) SP (84311): p-Aminophenol

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 9305U Anabolic Steroids Screen, Urine

Summary of Changes: Specimen Requirements were changed.  
Specimen Requirements (Transport Temperature) were changed.  
Stability was changed.  
Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

Specimen Requirements: 4 mL Urine  
 Transport Temperature: Refrigerated  
 Specimen Container: Plastic container (preservative-free)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: None

**Stability: Room Temperature: Undetermined**  
**Refrigerated: 30 day(s)**  
**Frozen (-20 °C): 30 day(s)**

Scope of Analysis: LC-MS/MS (80100): Bolasterone, Boldenone, Clostebol, Clostebol Metabolite,  
 Method (CPT Code) Clenbuterol, Drostanolone Metabolite, Norethandrolone, Fluoxymesterone,  
 Methandienone, Methandienone Metabolite, Methenolone, Methyltestosterone,  
 Nandrolone, Nandrolone Metabolite, Norandrostenedione, Norethandrolone  
 Metabolite, Norethindrone, Oxandrolone, Oxymetholone Metabolite, Probenecid,  
 Stanozolol, Stanozolol Metabolite, Turinabol, Tetrahydrogestrinone, Trenbolone  
 Metabolite, Testosterone, Epitestosterone, Testosterone / Epitestosterone Ratio  
 Colorimetry (82570): Creatinine

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0390U Aniline Exposure, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) SP (84311): p-Aminophenol, p-Aminophenol (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4655B Antidepressants Panel 1, Blood

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



## New Tests and Test Updates

### Test Changes

Specimen Requirements: 3 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Lavender top tube (EDTA)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### 4655FL Antidepressants Panel 1, Fluid

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

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Specimen Requirements: 3 mL Fluid  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### 4655SP Antidepressants Panel 1, Serum/Plasma

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

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Specimen Requirements: 3 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: Serum: Collect sample in Red top tube  
Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
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).

#### 4655TI Antidepressants Panel 1, Tissue

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

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## New Tests and Test Updates

### Test Changes

Specimen Requirements: 10 g Tissue  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### **4655U Antidepressants Panel 1, Urine**

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

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Specimen Requirements: 2 mL Urine  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### **8700B Antidepressants Panel, Blood**

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

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Specimen Requirements: 3 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Lavender top tube (EDTA)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### **8700FL Antidepressants Panel, Fluid**

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

---

Specimen Requirements: 3 mL Fluid  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### **8700SP Antidepressants Panel, Serum/Plasma**



## New Tests and Test Updates

### Test Changes

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

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Specimen Requirements: 3 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: Serum: Collect sample in Red top tube  
Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
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).

#### **8700TI Antidepressants Panel, Tissue**

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

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Specimen Requirements: 10 g Tissue  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### **8700U Antidepressants Panel, Urine**

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

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Specimen Requirements: 2 mL Urine  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

#### **9022SP Antidepressants Screen - Expanded, Serum/Plasma**

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

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# New Tests and Test Updates

## Test Changes

Specimen Requirements: 6 mL Serum or Plasma  
Transport Temperature: Frozen  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Yes  
Special Handling: Serum: Collect sample in Red top tube  
Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines. Ensure that container remains tightly sealed.  
Rejection Criteria: Not received Light Protected. Received Room Temperature. Received Refrigerated. Polymer gel separation tube (SST or PST).

### 9431B Antidepressants Screen, Blood

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

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Specimen Requirements: 5 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Lavender top tube (EDTA)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

### 9431SP Antidepressants Screen, Serum/Plasma

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

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Specimen Requirements: 5 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: Serum: Collect sample in Red top tube  
Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
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).

### 9431TI Antidepressants Screen, Tissue

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

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# New Tests and Test Updates

## Test Changes

Specimen Requirements: 10 g Tissue  
 Transport Temperature: Refrigerated  
 Specimen Container: Plastic container (preservative-free)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: None

### 9431U Antidepressants Screen, Urine

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

Specimen Requirements: 3 mL Urine  
 Transport Temperature: Refrigerated  
 Specimen Container: Plastic container (preservative-free)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: None

### 0410U Antimony, Urine

Summary of Changes: Stability was changed.  
 Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
 Refrigerated: 14 day(s)  
 Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) ICP/MS (83018): Antimony, Antimony (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2302U Aromatic Solvent Metabolites Panel 1, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) 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)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0457U Aromatic Solvents Panel, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (84600): o-Cresol, o-Cresol (Creatinine corrected), p-and/or m-Cresol, Phenol - Total, Phenol - Total (Creatinine corrected), Ethylphenol, Ethylphenol (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
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0468U Arsenic, Total Inorganic, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 28 day(s)  
Frozen (-20 °C): 28 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82175): Arsenic, Total Inorganic, Arsenic, Total Inorganic (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0460U Arsenic, Urine





# New Tests and Test Updates

## Test Changes

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3101U Benzene Metabolites Panel, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) 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
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0638U Beryllium, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83018): Beryllium, Beryllium (Creatinine corrected)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0645FL Bicarbonate, Fluid

Summary of Changes: Specimen Requirements were changed.

- Specimen Requirements: 2 mL Fluid
- 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

### 0645U Bicarbonate, Urine

Summary of Changes: Specimen Requirements were changed.

- Specimen Requirements: 1 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.

### 6108U Cadmium Exposure Profile (OSHA), Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 6109U Cadmium Exposure Profile (OSHA), Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) EIA (82232): Beta-2 Microglobulin, Beta-2 Microglobulin (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0921U Cadmium, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0995U Carbon Disulfide Exposure (TTCA), Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 1 day(s)  
Refrigerated: 7 day(s)  
Frozen (-20 °C): 30 day(s)



# New Tests and Test Updates

## Test Changes

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) LC-MS/MS (83789): 2-Thiothiazolidine-4-Carboxylic Acid, 2-Thiothiazolidine-4-Carboxylic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 1111U Chlorobenzene Exposure (p-Chlorophenol), Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) GC (84600): p-Chlorophenol, p-Chlorophenol (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 1273U Chromium - Total, Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 3 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) ICP/MS (82495): Chromium - Total, Chromium - Total (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 1261U Chromium, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

Stability: Room Temperature: 5 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 3 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82495): Chromium, Chromium (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 1348U Creatinine, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3060U Dimethylacetamide Metabolite, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (82491): Monomethylacetamide, Monomethylacetamide (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3070U Dimethylformamide (DMF) Exposure Panel, Urine

Summary of Changes: Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

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

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2029U Ethylbenzene Exposure Biouptake, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) IC (83921): Mandelic Acid, Mandelic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2056U Ethylene Glycol Monoethyl Ether, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC/MS (82542): Ethoxyacetic Acid, Ethoxyacetic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2054U Ethylene Glycol Monomethyl Ether, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC/MS (82542): Methoxyacetic Acid, Methoxyacetic Acid (Creatinine corrected)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 6303U Firefighter Core Baseline Profile, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
ICP/MS (83018): Antimony, Antimony (Creatinine corrected)  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2090U Fluoride, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ISE (82735): Fluoride, Fluoride (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2134U Formic Acid, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (83921): Formic Acid, Formic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2243U Heavy Metals Panel 4, Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 7 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83018): Bismuth  
ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
ICP/MS (83018): Antimony, Antimony (Creatinine corrected)  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2241U Heavy Metals Panel 5A, Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 3 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83655): Lead, Lead (Creatinine corrected)  
ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
ICP/MS (83018): Strontium, Strontium (Creatinine corrected)  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)  
ICP/MS (82495): Chromium, Chromium (Creatinine corrected)





# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2242U Heavy Metals Panel 5B, Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 7 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83018): Bismuth  
ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
ICP/MS (84255): Selenium, Selenium (Creatinine corrected)  
ICP/MS (83018): Tellurium  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2280U Hexacarbon Exposure Profile, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (84600): Phenol - Total, Phenol - Total (Creatinine corrected)  
GC (84600): 2-Hexanol - Total, 2-Hexanol - Total (Creatinine corrected), 2,5-Hexanedione - Total, 2,5-Hexanedione - Total (Creatinine corrected), Cyclohexanol - Total, Cyclohexanol - Total (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2306U Hippuric Acid and Methylhippuric Acid, Urine



# New Tests and Test Updates

## Test Changes

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected), Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2300U Hippuric Acid, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2492U Lead, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83655): Lead, Lead (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)



# New Tests and Test Updates

## Test Changes

### 2557U Mandelic Acid, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) IC (83921): Mandelic Acid, Mandelic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2570U Manganese, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83785): Manganese, Manganese (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2670U Mercury, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83825): Mercury, Mercury (Creatinine corrected)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2233U Metals Panel 2, Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 1274U Metals Panel 3 (Cobalt, Molybdenum, Nickel), Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83018): Cobalt, Cobalt (Creatinine corrected)  
ICP/MS (83018): Molybdenum, Molybdenum (Creatinine corrected)  
ICP/MS (83885): Nickel, Nickel (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2664U Metals Panel 4 (Arsenic, Cadmium, Lead, Mercury), Urine



# New Tests and Test Updates

## Test Changes

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
ICP/MS (83655): Lead, Lead (Creatinine corrected)  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2244U Metals/Metalloids Panel (11), Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 3 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82108): Aluminum  
ICP/MS (83018): Antimony, Antimony (Creatinine corrected)  
ICP/MS (82175): Arsenic, Total Inorganic, Arsenic, Total Inorganic (Creatinine corrected)  
ICP/MS (83018): Beryllium, Beryllium (Creatinine corrected)  
ICP/MS (83018): Bismuth  
ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
ICP/MS (82495): Chromium, Chromium (Creatinine corrected)  
ICP/MS (82525): Copper  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)  
ICP/MS (83885): Nickel, Nickel (Creatinine corrected)  
ICP/OES (84630): Zinc, Zinc (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2661U Metals/Metalloids Panel 1, Urine



# New Tests and Test Updates

## Test Changes

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
ICP/MS (83655): Lead, Lead (Creatinine corrected)  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2662U Metals/Metalloids Panel 2, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83018): Thallium, Thallium (Creatinine corrected)  
ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
ICP/MS (83785): Manganese, Manganese (Creatinine corrected)  
ICP/MS (83885): Nickel, Nickel (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2663U Metals/Metalloids Panel 3, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 3 day(s)



# New Tests and Test Updates

## Test Changes

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
 ICP/MS (83655): Lead, Lead (Creatinine corrected)  
 ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
 ICP/MS (83825): Mercury, Mercury (Creatinine corrected)  
 ICP/MS (82495): Chromium, Chromium (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2240U Metals/Metalloids Panel, Urine (CSA)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 3 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) ICP/MS (83018): Bismuth  
 ICP/MS (82175): Arsenic, Total Inorganic, Arsenic, Total Inorganic (Creatinine corrected)  
 ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
 ICP/MS (83018): Beryllium, Beryllium (Creatinine corrected)  
 ICP/MS (83825): Mercury, Mercury (Creatinine corrected)  
 ICP/MS (82495): Chromium, Chromium (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2836U Methanol Exposure Profile, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) GC (83921): Formic Acid, Formic Acid (Creatinine corrected)  
 Headspace GC (84600): Methanol



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2973U Methyl Bromide Exposure Profile, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (83921): Formic Acid, Formic Acid (Creatinine corrected)  
IC (82491): Bromide

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 2994U Methylhippuric Acid, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: IC (83921): Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected)  
Method (CPT Code) Colorimetry (82570): Creatinine

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3036U Methyltin, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (82491): Monomethyltin, Monomethyltin (Creatinine corrected), Dimethyltin,  
Dimethyltin (Creatinine corrected), Trimethyltin, Trimethyltin (Creatinine corrected)





# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3090U Molybdenum, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83018): Molybdenum, Molybdenum (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3095U Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP), Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: Not Stable  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) LC-MS/MS (83789): Mono-(2-ethyl-5-hydroxyhexyl) phthalate, Mono-(2-ethyl-5-hydroxyhexyl) phthalate (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3097U Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP), Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

Stability: Room Temperature: Not Stable  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) LC-MS/MS (83789): Mono-(2-ethyl-5-oxohexyl) phthalate, Mono-(2-ethyl-5-oxohexyl) phthalate (Creatinine correction)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3096U Mono-ethylhexyl phthalate (MEHP), Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: Not Stable  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) LC-MS/MS (83789): Mono-ethylhexyl phthalate, Mono-ethylhexyl phthalate (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3098U Mono-n-butyl phthalate (MNBP), Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: Not Stable  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) LC-MS/MS (83789): Mono-n-butyl phthalate, Mono-n-butyl phthalate (Creatinine correction)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3145B Nefazodone, Blood

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

Specimen Requirements: 1 mL Blood  
 Transport Temperature: Refrigerated  
 Specimen Container: Lavender top tube (EDTA)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: None

### 3145SP Nefazodone, Serum/Plasma

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

Specimen Requirements: 2 mL Serum or Plasma  
 Transport Temperature: Refrigerated  
 Specimen Container: Plastic container (preservative-free)  
 Light Protection: Not Required  
 Special Handling: Serum: Collect sample in Red top tube  
 Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
 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).

### 3145U Nefazodone, Urine

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

Specimen Requirements: 1 mL Urine  
 Transport Temperature: Refrigerated  
 Specimen Container: Plastic container (preservative-free)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: None



# New Tests and Test Updates

## Test Changes

### 3140U Nickel, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83885): Nickel, Nickel (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3185U Nitrobenzene Exposure Monitoring, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) HPTLC (84600): p-Nitrophenol, p-Nitrophenol (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3384U Pentachlorophenol, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (82441): Pentachlorophenol, Pentachlorophenol (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)



# New Tests and Test Updates

## Test Changes

### 3621U Phenol Exposure, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 4 day(s)  
Refrigerated: 7 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: GC (84600): Phenol - Total, Phenol - Total (Creatinine corrected)  
Method (CPT Code) Colorimetry (82570): Creatinine

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3099U Phthalates Panel, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: Not Stable  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) LC-MS/MS (83789): Mono-(2-ethyl-5-hydroxyhexyl) phthalate, Mono-(2-ethyl-5-hydroxyhexyl) phthalate (Creatinine corrected), Mono-ethylhexyl phthalate, Mono-ethylhexyl phthalate (Creatinine corrected), Mono-(2-ethyl-5-oxohexyl) phthalate, Mono-(2-ethyl-5-oxohexyl) phthalate (Creatinine correction), Mono-n-butyl phthalate, Mono-n-butyl phthalate (Creatinine correction)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3795U Pregabalin, Urine

Summary of Changes: Specimen Requirements were changed.



# New Tests and Test Updates

## 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

### 3475U S-Phenylmercapturic Acid, Urine

Summary of Changes: Stability was changed.  
 Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
 Refrigerated: 15 day(s)  
 Frozen (-20 °C): 15 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) LC-MS/MS (83789): S-Phenylmercapturic Acid, S-Phenylmercapturic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4180U Selenium, Urine

Summary of Changes: Stability was changed.  
 Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
 Refrigerated: 30 day(s)  
 Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
 Method (CPT Code) ICP/MS (84255): Selenium, Selenium (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 6317U Semi Conductor Panel, Urine

Summary of Changes: Stability was changed.  
 Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82175): Arsenic, Arsenic (Creatinine corrected)  
ICP/MS (84255): Selenium, Selenium (Creatinine corrected)  
ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
ICP/MS (83018): Tellurium  
ICP/MS (83825): Mercury, Mercury (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 0872U Solvent Profile, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: SP (83921): Trichloroacetic Acid, Trichloroacetic Acid (Creatinine corrected)  
Method (CPT Code) 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
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4213U Styrene Exposure Profile, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: IC (83921): Mandelic Acid, Mandelic Acid (Creatinine corrected), Phenylglyoxylic  
Method (CPT Code) Acid, Phenylglyoxylic Acid (Creatinine corrected)  
Colorimetry (82570): Creatinine



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4238U Sulfide Exposure Biouptake Marker, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 3 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) IC (82491): Thiosulfate, Thiosulfate (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4370U Thallium, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (83018): Thallium, Thallium (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4440U Thiocyanate, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.





# New Tests and Test Updates

## Test Changes

Stability: Room Temperature: 5 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: IC (84430): Thiocyanate, Thiocyanate (Creatinine corrected)  
Method (CPT Code) Colorimetry (82570): Creatinine

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4472U Thiosulfate, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 3 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) IC (82491): Thiosulfate, Thiosulfate (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4513U Toluene Exposure, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GC (84600): o-Cresol, o-Cresol (Creatinine Corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)



# New Tests and Test Updates

## Test Changes

### 0470UH Total, Inorganic Arsenic, 24 Hour Urine (+Creatinine)

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 7 day(s)  
Refrigerated: 7 day(s)  
Frozen (-20 °C): 28 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/MS (82175): Urine Volume, Arsenic, Total Inorganic, Arsenic, Total Inorganic (Creatinine corrected), Arsenic, Total Inorganic

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 9282B Trazodone Screen, Blood

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

Specimen Requirements: 4 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Lavender top tube (EDTA)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

### 9282SP Trazodone Screen, Serum/Plasma

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

Specimen Requirements: 4 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: Serum: Collect sample in Red top tube  
Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
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).

### 9282TI Trazodone Screen, Tissue



Effective Date:

Monday, October 01, 2012

# New Tests and Test Updates

## Test Changes

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

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Specimen Requirements: 10 g Tissue  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

### 9282U Trazodone Screen, Urine

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

---

Specimen Requirements: 2 mL Urine  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

### 4535FL Trazodone, Fluid

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

---

Specimen Requirements: 2 mL Fluid  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

### 4535SP Trazodone, Serum/Plasma

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

---



# New Tests and Test Updates

## Test Changes

Specimen Requirements: 2 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: Serum: Collect sample in Red top tube  
Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
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).

### 4535TI Trazodone, Tissue

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

---

Specimen Requirements: 10 g Tissue  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

### 4535U Trazodone, Urine

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

---

Specimen Requirements: 1 mL Urine  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None

### 4658U Trichloroethylene Exposure, Urine

Summary of Changes: Reference Comment was changed.

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Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) SP (83921): Trichloroacetic Acid, Trichloroacetic Acid (Creatinine corrected)  
GC (82441): Trichloroethanol, Trichloroethanol (Creatinine corrected)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4765U Vanadium, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) GFAAS (83018): Vanadium, Vanadium (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4778U Vinyl Chloride Metabolite, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

Stability: Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) LC-MS/MS (83789): Thiodiglycolic Acid, Thiodiglycolic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4821U Xylene Exposure Panel, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) IC (83921): Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected)



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 4844U Zinc, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 28 day(s)  
Frozen (-20 °C): 28 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine  
Method (CPT Code) ICP/OES (84630): Zinc, Zinc (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 1352U o-Cresol, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.

**Stability:** Room Temperature: 5 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: GC (84600): o-Cresol, o-Cresol (Creatinine corrected)  
Method (CPT Code) Colorimetry (82570): Creatinine

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)

### 3100U t,t-Muconic Acid, Urine

Summary of Changes: Stability was changed.  
Reference Comment was changed.



Effective Date:

Monday, October 01, 2012

## New Tests and Test Updates

### Test Changes

Stability: Room Temperature: 5 day(s)

Refrigerated: 14 day(s)

Frozen (-20 °C): 14 day(s)

Scope of Analysis: Colorimetry (82570): Creatinine

Method (CPT Code) LC-MS/MS (83789): t,t-Muconic Acid, t,t-Muconic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Creatinine	mg/L	U.S. Population (10th - 90th percentiles, median) All participants: 335 - 2370 mg/L, median 1180 (n=22,245) Males: 495 - 2540 mg/L, median 1370 (n=10,610) Females: 273 - 2170 mg/L, median 994 (n=11,635)