



Effective Date:  
Monday, July 25, 2011

## New Tests and Test Updates

### Immediate Action

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, July 25, 2011

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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
1265SP	Chromium and Cobalt, Serum/Plasma	•								
1265U	Chromium and Cobalt, Urine	•								
1261FL	Chromium, Fluid			•	•					
1261H	Chromium, Hair			•						
1261LI	Chromium, Liquid			•	•					
1261N	Chromium, Nails			•						
1261R	Chromium, RBCs			•	•					
1261SP	Chromium, Serum/Plasma			•	•				•	
1261TI	Chromium, Tissue			•						
1261U	Chromium, Urine			•	•				•	
1290FL	Cobalt, Fluid				•				•	
1290H	Cobalt, Hair								•	
1290N	Cobalt, Nails								•	
1290R	Cobalt, RBCs								•	
1290SP	Cobalt, Serum/Plasma					•			•	
1290TI	Cobalt, Tissue								•	
1290U	Cobalt, Urine					•			•	
2241U	Heavy Metals Panel 5A, Urine (CSA)			•	•				•	
2242U	Heavy Metals Panel 5B, Urine (CSA)				•				•	
2551B	Magnesium - Total, Blood				•					
2551R	Magnesium - Total, RBCs				•				•	
2551SP	Magnesium - Total, Serum/Plasma				•					
6153R	Metals Panel 1, RBCs			•	•				•	
6375U	Metals Panel, Urine (CSA)			•	•	•			•	
2663H	Metals/Metalloids Panel 3, Hair			•						
2663N	Metals/Metalloids Panel 3, Nails			•						
2663SP	Metals/Metalloids Panel 3, Serum/Plasma			•	•				•	
2663U	Metals/Metalloids Panel 3, Urine			•	•				•	
2240U	Metals/Metalloids Panel, Urine (CSA)			•	•				•	
3069R	Mineral Profile (7), RBCs			•	•				•	
3066B	Mineral Profile, Blood				•		•		•	



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Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
3066R	Mineral Profile, RBCs				•				•	
3066SP	Mineral Profile, Serum/Plasma				•	•	•		•	
3784B	Potassium - Total, Blood				•					
3784R	Potassium - Total, RBCs				•					
3784SP	Potassium - Total, Serum/Plasma				•					
4180U	Selenium, Urine				•				•	
6317U	Semi Conductor Panel, Urine				•				•	



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## New Tests and Test Updates

### New Tests

<b>1265SP</b>	<b>Chromium and Cobalt, Serum/Plasma</b>	<b>Effective Immediately</b>
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Scope of Analysis: Chromium [ICP/MS], Cobalt [ICP/MS]  
 Method(s): Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)  
 Purpose: Exposure Monitoring/Investigation  
 Category: Metal/Element  
 Specimen Requirements: 1 mL Serum or Plasma  
 Minimum Volume: 0.4 mL  
 Special Handling: Promptly centrifuge and separate Serum or Plasma into an acid washed plastic screw capped vial using approved guidelines.  
 Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA), Serum: Royal Blue top tube (Trace metal-free; No additive)  
 Transport Temperature: Refrigerated  
 Light Protection: Not Required  
 Rejection Criteria: Polymer gel separation tube (SST or PST).  
 Stability: Room Temperature: 30 day(s)  
 Refrigerated: 30 day(s)  
 Frozen (-20 °C): 30 day(s)

<b>Method: Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)</b>
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Set-Up Days / TAT: Monday Wednesday Friday 1 day (after set-up)  
 CPT Code: 82495

Compound Name / Alias	Units	RL	Reference Comment
Chromium	mcg/L	1.0	Normal serum values are less than 1.0 mcg/L.
Cobalt	mcg/L	1.0	Normal serum values are less than 1.0 mcg/L.

<b>1265U</b>	<b>Chromium and Cobalt, Urine</b>	<b>Effective Immediately</b>
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Scope of Analysis: Chromium [ICP/MS], Cobalt [ICP/MS]  
 Method(s): Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)  
 Purpose: Exposure Monitoring/Investigation  
 Category: Metal/Element  
 Specimen Requirements: 1 mL Urine  
 Minimum Volume: 0.4 mL  
 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.  
 Specimen Container: Plastic container (Acid washed or Trace metal-free)  
 Transport Temperature: Refrigerated  
 Light Protection: Not Required  
 Rejection Criteria: Received Frozen.  
 Stability: Room Temperature: 30 day(s)  
 Refrigerated: 30 day(s)  
 Frozen (-20 °C): 3 day(s)

<b>Method: Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)</b>
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Set-Up Days / TAT: Monday Wednesday Friday 1 day (after set-up)  
 CPT Code: 82495

Compound Name / Alias	Units	RL	Reference Comment
Chromium	mcg/L	1.0	Normal urine values are less than 1.0 mcg/L.



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## New Tests and Test Updates

### New Tests

<b>Compound Name / Alias</b>	<b>Units</b>	<b>RL</b>	<b>Reference Comment</b>
Cobalt	mcg/L	1.0	Normal urine values are less than 2.0 mcg/L.



## New Tests and Test Updates

### Test Changes

#### 1261FL Chromium, Fluid

Summary of Changes: Specimen Requirements were changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]

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Specimen Requirements: 1 mL Fluid  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (Acid washed or Trace metal-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None  
Scope of Analysis: ICP/MS (82495): Chromium  
Method (CPT Code)

#### 1261H Chromium, Hair

Summary of Changes: Methods/CPT Codes were changed [ICP/MS (80103, 82495)]

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Scope of Analysis: ICP/MS (80103, 82495): Chromium  
Method (CPT Code)

#### 1261LI Chromium, Liquid

Summary of Changes: Specimen Requirements were changed.  
Methods/CPT Codes were changed [ICP/MS (None)]

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Specimen Requirements: 1 mL Liquid  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (Acid washed or Trace metal-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None  
Scope of Analysis: ICP/MS (None): Chromium  
Method (CPT Code)

#### 1261N Chromium, Nails

Summary of Changes: Methods/CPT Codes were changed [ICP/MS (80103, 82495)]

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Scope of Analysis: ICP/MS (80103, 82495): Chromium  
Method (CPT Code)

#### 1261R Chromium, RBCs



# New Tests and Test Updates

## Test Changes

Summary of Changes: Specimen Requirements were changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]

Specimen Requirements: 1 mL RBCs  
 Transport Temperature: Refrigerated  
 Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)  
 Light Protection: Not Required  
 Special Handling: Centrifuge and separate RBCs into an acid washed plastic screw capped vial within two hours of collection.  
 Rejection Criteria: Received Frozen.  
 Scope of Analysis: ICP/MS (82495): Chromium  
 Method (CPT Code)

### 1261SP Chromium, Serum/Plasma

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]

Specimen Requirements: 1 mL Serum or Plasma  
 Transport Temperature: Refrigerated  
 Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA), Serum: Royal Blue top tube (Trace metal-free; No additive)  
 Light Protection: Not Required  
 Special Handling: Promptly centrifuge and separate Serum or Plasma into an acid washed plastic screw capped vial using approved guidelines.  
 Rejection Criteria: Polymer gel separation tube (SST or PST).  
 Scope of Analysis: ICP/MS (82495): Chromium  
 Method (CPT Code)

Compound Name	Units	Reference Comment
Chromium	mcg/L	Normal serum values are less than 1.0 mcg/L.

### 1261TI Chromium, Tissue

Summary of Changes: Methods/CPT Codes were changed [ICP/MS (80103, 82495)]

Scope of Analysis: ICP/MS (80103, 82495): Chromium  
 Method (CPT Code)

### 1261U Chromium, Urine

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]



# New Tests and Test Updates

## Test Changes

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

Compound Name	Units	Reference Comment
Chromium	mcg/L	Normal urine values are less than 1.0 mcg/L.

### 1290FL Cobalt, Fluid

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.

Specimen Requirements: 1 mL Fluid  
 Transport Temperature: Refrigerated  
 Specimen Container: Plastic container (Acid washed or Trace metal-free)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: None  
 Scope of Analysis: ICP/MS (83018): Cobalt  
 Method (CPT Code)

Compound Name	Units	Reference Comment
Cobalt	mcg/L	No reference data available. Not for clinical diagnostic purposes.

### 1290H Cobalt, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (80103, 83018): Cobalt  
 Method (CPT Code)

Compound Name	Units	Reference Comment
Cobalt	mcg/g	Normally: Less than 2 mcg/g. Not for clinical diagnostic purposes.





# New Tests and Test Updates

## Test Changes

### 1290N Cobalt, Nails

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (80103, 83018): Cobalt  
Method (CPT Code)

Compound Name	Units	Reference Comment
Cobalt	mcg/g	No reference data available. Not for clinical diagnostic purposes.

### 1290R Cobalt, RBCs

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Cobalt  
Method (CPT Code)

Compound Name	Units	Reference Comment
Cobalt	mcg/L	No reference data available. Not for clinical diagnostic purposes.

### 1290SP Cobalt, Serum/Plasma

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

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

Scope of Analysis: ICP/MS (83018): Cobalt  
Method (CPT Code)

Compound Name	Units	Reference Comment
Cobalt	mcg/L	Normal serum values are less than 1.0 mcg/L.

### 1290TI Cobalt, Tissue

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (80103, 83018): Cobalt  
Method (CPT Code)

Compound Name	Units	Reference Comment
Cobalt	mcg/g	No reference data available. Not for clinical diagnostic purposes.

### 1290U Cobalt, Urine



# New Tests and Test Updates

## Test Changes

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

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

Scope of Analysis: ICP/MS (83018): Cobalt  
Method (CPT Code)

Compound Name	Units	Reference Comment
Cobalt	mcg/L	Normal urine values are less than 2.0 mcg/L.

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

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]  
Method for Chromium was changed.

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: Received Frozen.

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)

Compound Name	Units	Reference Comment
Chromium	mcg/L	Normal urine values are less than 1.0 mcg/L.

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

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

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  
 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
Selenium (Creatinine corrected)	mcg/g Creat	[Reference comment removed]

### 2551B Magnesium - Total, Blood

Summary of Changes: Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood  
 Transport Temperature: Refrigerated  
 Specimen Container: Green top tube (Sodium Heparin)  
 Light Protection: Not Required  
 Special Handling: Clotted Blood specimens are not acceptable.  
 Rejection Criteria: Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate Dextrose).

### 2551R Magnesium - Total, RBCs

Summary of Changes: Specimen Requirements (Rejection Criteria) were changed.  
 Reference Comment was changed.



# New Tests and Test Updates

## Test Changes

Specimen Requirements: 1 mL RBCs  
 Transport Temperature: Refrigerated  
 Specimen Container: Green top tube (Sodium Heparin)  
 Light Protection: Not Required  
 Special Handling: Centrifuge and separate RBCs into an acid washed plastic screw capped vial within two hours of collection.  
 Rejection Criteria: Received Frozen. Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate Dextrose).  
 Scope of Analysis: FAAS (83735): Magnesium  
 Method (CPT Code)

Compound Name	Units	Reference Comment
Magnesium	mg/dL	Normal Adults: 3.0 - 6.1 mg/dL (5th to 95th percentile).

### 2551SP Magnesium - Total, Serum/Plasma

Summary of Changes: Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Serum or Plasma  
 Transport Temperature: Refrigerated  
 Specimen Container: Polymer gel separation tube (SST or PST), Red top tube (no additive)  
 Light Protection: Not Required  
 Special Handling: Hemolyzed Specimens are unsuitable for analysis. Promptly centrifuge and separate Serum or Plasma into an acid washed plastic screw capped vial using approved guidelines.  
 Rejection Criteria: Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate Dextrose).

### 6153R Metals Panel 1, RBCs

Summary of Changes: Specimen Requirements (Specimen Container) were changed.  
 Specimen Requirements (Rejection Criteria) were changed.  
 Reference Comment was changed.  
 Methods/CPT Codes were changed [ICP/MS (82495)]

Specimen Requirements: 7 mL RBCs  
 Transport Temperature: Refrigerated  
 Specimen Container: Green top tube (Sodium Heparin), Light Green top tube (Lithium Heparin), Royal Blue top tube (Trace metal-free; EDTA)  
 Light Protection: Not Required



# New Tests and Test Updates

## Test Changes

**Special Handling:** Submit in container with a non-Potassium based preservative/anticoagulant. Tubes containing Potassium based preservatives/anticoagulants are not acceptable. Centrifuge and separate RBCs into an acid washed plastic screw capped vial within two hours of collection.

**Rejection Criteria:** Received Frozen. Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA). Yellow top tube (ACD - Acid Citrate Dextrose).

**Scope of Analysis:** ICP/MS (82495): Chromium  
**Method (CPT Code)** FAAS (84630): Zinc  
 FAAS (82525): Copper  
 FAAS (84132): Potassium  
 FAAS (83735): Magnesium  
 ICP/AES (82310): Calcium

Compound Name	Units	Reference Comment
Magnesium	mg/dL	Normal Adults: 3.0 - 6.1 mg/dL (5th to 95th percentile).

### 6375U Metals Panel, Urine (CSA)

**Summary of Changes:** Specimen Requirements were changed.  
 Stability was changed.  
 Reference Comment was changed.  
 Methods/CPT Codes were changed [ICP/MS (82495)]  
 Method for Chromium was changed.

**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:** Received Frozen.  
**Stability:** Room Temperature: 7 day(s)  
 Refrigerated: 7 day(s)  
 Frozen (-20 °C): 3 day(s)  
**Scope of Analysis:** Colorimetry (82570): Creatinine  
**Method (CPT Code)** ICP/MS (82175): Arsenic, Total Inorganic, Arsenic, Total Inorganic (Creatinine corrected)  
 ICP/MS (82300): Cadmium, Cadmium (Creatinine corrected)  
 ICP/MS (82495): Chromium, Chromium (Creatinine corrected)

Compound Name	Units	Reference Comment
Chromium	mcg/L	Normal urine values are less than 1.0 mcg/L.



# New Tests and Test Updates

## Test Changes

### 2663H Metals/Metalloids Panel 3, Hair

Summary of Changes: Methods/CPT Codes were changed [ICP/MS (80103, 82495)]  
Method for Chromium was changed.

Scope of Analysis: ICP/MS (80103, 83825): Mercury  
Method (CPT Code) ICP/MS (80103, 83655): Lead  
ICP/MS (80103, 82175): Arsenic  
ICP/MS (80103, 82495): Chromium  
ICP/MS (80103, 82300): Cadmium

### 2663N Metals/Metalloids Panel 3, Nails

Summary of Changes: Methods/CPT Codes were changed [ICP/MS (80103, 82495)]  
Method for Chromium was changed.

Scope of Analysis: ICP/MS (80103, 82175): Arsenic  
Method (CPT Code) ICP/MS (80103, 83825): Mercury  
ICP/MS (80103, 83655): Lead  
ICP/MS (80103, 82495): Chromium  
ICP/MS (80103, 82300): Cadmium

### 2663SP Metals/Metalloids Panel 3, Serum/Plasma

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]  
Method for Chromium was changed.

Specimen Requirements: 4 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA), Serum: Royal Blue top tube (Trace metal-free; No additive)  
Light Protection: Not Required  
Special Handling: Avoid seafood consumption for 48 hours prior to sample collection. Promptly centrifuge and separate Serum or Plasma into an acid washed plastic screw capped vial using approved guidelines.  
Rejection Criteria: Polymer gel separation tube (SST or PST).  
Scope of Analysis: GFAAS (82175): Arsenic  
Method (CPT Code) ICP/MS (82495): Chromium  
ICP/MS (82300): Cadmium  
ICP/MS (83825): Mercury  
ICP/MS (83655): Lead

Compound Name	Units	Reference Comment
Chromium	mcg/L	Normal serum values are less than 1.0 mcg/L.

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



# New Tests and Test Updates

## Test Changes

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]  
Method for Chromium was changed.

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: Received Frozen.  
 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
Chromium	mcg/L	Normal urine values are less than 1.0 mcg/L.

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

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.  
Methods/CPT Codes were changed [ICP/MS (82495)]  
Method for Chromium was changed.

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: Received Frozen.



# New Tests and Test Updates

## Test Changes

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
Chromium	mcg/L	Normal urine values are less than 1.0 mcg/L.

### 3069R Mineral Profile (7), RBCs

Summary of Changes: Specimen Requirements were changed.  
 Reference Comment was changed.  
 Methods/CPT Codes were changed [ICP/MS (82495)]  
 Method for Chromium was changed.

Specimen Requirements: 8 mL RBCs  
 Transport Temperature: Refrigerated  
 Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)  
 Light Protection: Not Required  
 Special Handling: Centrifuge and separate RBCs into an acid washed plastic screw capped vial within two hours of collection.  
 Rejection Criteria: Received Frozen. Lavender top tube (EDTA).  
 Scope of Analysis: ICP/MS (82495): Chromium, Cobalt  
 Method (CPT Code) ICP/MS (84255): Selenium  
 ICP/MS (83018): Molybdenum  
 ICP/MS (83785): Manganese  
 FAAS (84630): Zinc  
 FAAS (82525): Copper

Compound Name	Units	Reference Comment
Cobalt	mcg/L	No reference data available. Not for clinical diagnostic purposes.

### 3066B Mineral Profile, Blood

Summary of Changes: Specimen Requirements (Specimen Container) were changed.  
 Specimen Requirements (Special Handling) were changed.  
 Specimen Requirements (Rejection Criteria) were changed.  
 Scope of Analysis was changed.  
 Reference Comment was changed.  
 Magnesium was removed.





# New Tests and Test Updates

## Test Changes

Specimen Requirements: 6 mL Blood  
 Transport Temperature: Refrigerated  
 Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)  
 Light Protection: Not Required  
 Special Handling: For Magnesium testing, please order Magnesium test 2551.  
 Submit in container with a non-Heparin based anticoagulant. Tubes containing Heparin based anticoagulants are not acceptable.  
 Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin). Lavender top tube (EDTA).  
 Scope of Analysis: ICP/MS (82495): Chromium, Cobalt  
 Method (CPT Code) ICP/MS (84255): Selenium  
 ICP/MS (83018): Molybdenum  
 ICP/MS (83785): Manganese  
 FAAS (84630): Zinc  
 FAAS (82525): Copper

Compound Name	Units	Reference Comment
Chromium	mcg/L	Normal blood values are less than 1.0 mcg/L.

### 3066R Mineral Profile, RBCs

Summary of Changes: Specimen Requirements were changed.  
 Specimen Requirements (Specimen Container) were changed.  
 Specimen Requirements (Rejection Criteria) were changed.  
 Reference Comment was changed.  
 Methods/CPT Codes were changed [ICP/MS (83018)]  
 Method for Chromium was changed.

Specimen Requirements: 8 mL RBCs  
 Transport Temperature: Refrigerated  
 Specimen Container: Green top tube (Sodium Heparin), Royal Blue top tube (Trace metal-free; EDTA)  
 Light Protection: Not Required  
 Special Handling: Centrifuge and separate RBCs into an acid washed plastic screw capped vial within two hours of collection.  
 Rejection Criteria: Received Frozen. Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate Dextrose). Lavender top tube (EDTA).  
 Scope of Analysis: ICP/MS (84255): Selenium  
 Method (CPT Code) ICP/MS (83018): Molybdenum  
 ICP/MS (83785): Manganese  
 ICP/MS (83018): Cobalt, Chromium  
 FAAS (84630): Zinc  
 FAAS (82525): Copper  
 FAAS (83735): Magnesium



# New Tests and Test Updates

## Test Changes

Compound Name	Units	Reference Comment
Cobalt	mcg/L	No reference data available. Not for clinical diagnostic purposes.

### 3066SP Mineral Profile, Serum/Plasma

Summary of Changes: Specimen Requirements were changed.  
 Specimen Requirements (Specimen Container) were changed.  
 Specimen Requirements (Special Handling) were changed.  
 Specimen Requirements (Rejection Criteria) were changed.  
 Stability was changed.  
 Scope of Analysis was changed.  
 Reference Comment was changed.  
 Methods/CPT Codes were changed [ICP/MS (82495)]  
 Magnesium was removed.  
 Method for Chromium was changed.

Specimen Requirements: 5 mL Serum or Plasma  
 Transport Temperature: Refrigerated  
 Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA), Serum: Royal Blue top tube (Trace metal-free; No additive)  
 Light Protection: Not Required  
 Special Handling: For Magnesium testing, please order Magnesium test 2551.  
 Promptly centrifuge and separate Serum or Plasma into an acid washed plastic screw capped vial using approved guidelines.  
 Rejection Criteria: Polymer gel separation tube (SST or PST). Lavender top tube (EDTA).  
 Stability: Room Temperature: 14 day(s)  
 Refrigerated: 14 day(s)  
 Frozen (-20 °C): 14 day(s)  
 Scope of Analysis: ICP/MS (82495): Chromium, Cobalt  
 Method (CPT Code) ICP/MS (84255): Selenium  
 ICP/MS (83018): Molybdenum  
 ICP/MS (83785): Manganese  
 ICP/MS (84630): Zinc  
 FAAS (82525): Copper

Compound Name	Units	Reference Comment
Chromium	mcg/L	Normal serum values are less than 1.0 mcg/L.
Cobalt	mcg/L	Normal serum values are less than 1.0 mcg/L.

### 3784B Potassium - Total, Blood

Summary of Changes: Specimen Requirements (Rejection Criteria) were changed.



## New Tests and Test Updates

### Test Changes

Specimen Requirements: 1 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Light Green top tube (Lithium Heparin)  
Light Protection: Not Required  
Special Handling: Clotted Blood specimens are not acceptable.  
Submit in container with a non-Potassium based preservative/anticoagulant. Tubes containing Potassium based preservatives/anticoagulants are not acceptable.  
Rejection Criteria: Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate Dextrose).

#### **3784R Potassium - Total, RBCs**

Summary of Changes: Specimen Requirements (Rejection Criteria) were changed.

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Specimen Requirements: 1 mL RBCs  
Transport Temperature: Refrigerated  
Specimen Container: Light Green top tube (Lithium Heparin)  
Light Protection: Not Required  
Special Handling: Submit in container with a non-Potassium based preservative/anticoagulant. Tubes containing Potassium based preservatives/anticoagulants are not acceptable.  
Centrifuge and separate RBCs into an acid washed plastic screw capped vial within two hours of collection.  
Rejection Criteria: Received Frozen. Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate Dextrose).

#### **3784SP Potassium - Total, Serum/Plasma**

Summary of Changes: Specimen Requirements (Rejection Criteria) were changed.

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Specimen Requirements: 1 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Polymer gel separation tube (SST or PST), Red top tube (no additive)  
Light Protection: Not Required  
Special Handling: Hemolyzed Specimens are unsuitable for analysis. Submit in container with a non-Potassium based preservative/anticoagulant. Tubes containing Potassium based preservatives/anticoagulants are not acceptable. Promptly centrifuge and separate Serum or Plasma into an acid washed plastic screw capped vial using approved guidelines.  
Rejection Criteria: Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Yellow top tube (ACD - Acid Citrate Dextrose).

#### **4180U Selenium, Urine**

Summary of Changes: Specimen Requirements were changed.  
Reference Comment was changed.

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# New Tests and Test Updates

## Test Changes

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

Compound Name	Units	Reference Comment
Selenium (Creatinine corrected)	mcg/g Creat	[Reference comment removed]

### 6317U Semi Conductor Panel, Urine

Summary of Changes: Specimen Requirements were changed.  
 Reference Comment was changed.

Specimen Requirements: 8 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  
 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
Selenium (Creatinine corrected)	mcg/g Creat	[Reference comment removed]