



Effective Date:

Monday, October 04, 2021

Test Updates

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 04, 2021

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

Discontinued Tests - Tests being discontinued with alternate testing suggestions.

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

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

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



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Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
0264H	Aluminum, Hair							•	
0264R	Aluminum, RBCs							•	
0264TI	Aluminum, Tissue							•	
0410H	Antimony, Hair							•	
0410R	Antimony, RBCs							•	
0460H	Arsenic, Hair							•	
0460N	Arsenic, Nails							•	
0460R	Arsenic, RBCs							•	
0460TI	Arsenic, Tissue							•	
0519H	Barium, Hair							•	
0921H	Cadmium, Hair							•	
0921TI	Cadmium, Tissue							•	
1033ST	Cathartic Laxatives Profile, Stool							•	
1261H	Chromium, Hair							•	
1290H	Cobalt, Hair							•	
1330H	Copper, Hair							•	
2492H	Lead, Hair							•	
2492N	Lead, Nails							•	
2492R	Lead, RBCs							•	
2551H	Magnesium - Total, Hair							•	
2551ST	Magnesium - Total, Stool							•	
2570H	Manganese, Hair							•	
2670H	Mercury, Hair							•	
2670N	Mercury, Nails							•	
2670R	Mercury, RBCs							•	
2670TI	Mercury, Tissue							•	
2693H	Metals/Metalloids Acute Poisoning Panel, Hair							•	
2661H	Metals/Metalloids Panel 1, Hair							•	
2661N	Metals/Metalloids Panel 1, Nails							•	
2662H	Metals/Metalloids Panel 2, Hair							•	
2663H	Metals/Metalloids Panel 3, Hair							•	
2663N	Metals/Metalloids Panel 3, Nails							•	
3090H	Molybdenum, Hair							•	



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Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
3140H	Nickel, Hair							•	
3765ST	Phosphorus - Total, Stool							•	
4180H	Selenium, Hair							•	
4180N	Selenium, Nails							•	
4370H	Thallium, Hair							•	
4370N	Thallium, Nails							•	
4844H	Zinc, Hair							•	
4844N	Zinc, Nails							•	



Test Updates

Test Changes

0264H Aluminum, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (82108): Aluminum
Method (CPT Code)

Compound Name	Units	Reference Comment
Aluminum	mcg/g	Normally: Less than 40 mcg/g.

0264R Aluminum, RBCs

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (82108): Aluminum
Method (CPT Code)

Compound Name	Units	Reference Comment
Aluminum	mcg/L	NMS Labs derived data: 10th - 90th Percentile Data: Mean, 18 mcg/L +/- 5.5 (SD); range, 10 - 57 mcg/L (N = 45).

0264TI Aluminum, Tissue

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (82108): Aluminum
Method (CPT Code)

Compound Name	Units	Reference Comment
Aluminum	mcg/g	Normally: Liver: Less than 10 mcg/g Kidney: Less than 10 mcg/g Brain: Less than 2 mcg/g

0410H Antimony, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Antimony
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Antimony	mcg/g	Normally: Less than 0.2 mcg/g.

0410R Antimony, RBCs



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Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Antimony	mcg/L	The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) NMS Labs has demonstrated that certain collection tubes can artifactually increase measured antimony concentrations rendering reported concentrations difficult to interpret. Please call NMS Client Services if more specific information is required.

0460H Arsenic, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (82175): Arsenic
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Arsenic	mcg/g	Normally: Less than 2 mcg/g.

0460N Arsenic, Nails

Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Arsenic	mcg/g	Normally: Less than 2 mcg/g.

0460R Arsenic, RBCs

Summary of Changes: Reference Comment was changed.

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



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Compound Name	Units	Reference Comment
Arsenic	mcg/L	<p>Reported overnight fasting reference range: 0.47 - 22 mcg/L</p> <p>Mean = 4.8 mcg/L Median = 2.0 mcg/L 19 of 21 normal subjects had concentrations less than 9.5 mcg/L The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL)</p> <p>Various states require that levels above certain cutoffs must be reported to the state in which the patient resides. Please contact NMS Labs if you need assistance in supplying your state with the required information.</p>

0460TI Arsenic, Tissue

Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Arsenic	mcg/g	For most soft tissues, normally: Less than 0.10 mcg/g. Concentrations vary by organ, diet, environment, form of arsenic, time since exposure etc.

0519H Barium, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Barium
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Barium	mcg/g	Normally: Less than 2 mcg/g.

0921H Cadmium, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (82300): Cadmium
Method (CPT Code) ICP/MS (None):



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Compound Name	Units	Reference Comment
Cadmium	mcg/g	Normally: Less than 5 mcg/g.

0921TI Cadmium, Tissue

Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Cadmium	mcg/g	Concentrations vary by organ, smoking status, diet, environment, etc.

1033ST Cathartic Laxatives Profile, Stool

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/OES (80375): Magnesium
Method (CPT Code) ICP/OES (84100): Phosphorus

Compound Name	Units	Reference Comment
Magnesium	mg/g	Magnesium concentrations in stool water above the normal levels of 0.7 - 1.2 mg/mL have been indicative of surreptitious abuse of magnesium containing laxatives. NMS Labs Calculated Normal: Approximately 0.5 - 10 mg/g Based on the reported range of magnesium eliminated per day in stool and the range of stool mass per day in adults.
Phosphorus	mg/g	Phosphorus concentrations in stool water averaged 1.8 +/- 0.3 mg/mL (ranged from 0.3 - 4.2 mg/mL) following administration of 105 mmol of sodium phosphate. NMS Labs calculated normal: Approximately 1.4 - 22 mg/g. (Based on the reported range of phosphorus eliminated per day in stool and the range of stool mass per day in adults).

1261H Chromium, Hair

Summary of Changes: Reference Comment was changed.



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Scope of Analysis: ICP/MS (82495): Chromium
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Chromium	mcg/g	Normally: Less than 3 mcg/g.

1290H Cobalt, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Cobalt
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Cobalt	mcg/g	Normally: Less than 2 mcg/g.

1330H Copper, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/OES (82525): Copper
Method (CPT Code)

Compound Name	Units	Reference Comment
Copper	mcg/g	Variable, generally 5 - 100 mcg/g.

2492H Lead, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83655): Lead
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Lead	mcg/g	Normally: Less than 15 mcg/g.

2492N Lead, Nails

Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Lead	mcg/g	Normally: Less than 15 mcg/g.

2492R Lead, RBCs



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Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Lead	mcg/dL	NMS Labs derived data: 10th - 90th Percentile Data: Mean, 3.1 mcg/dL +/- 1.3 (SD); range, 1.1 - 6.9 mcg/dL (N = 26). The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL)

2551H Magnesium - Total, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/OES (83735): Magnesium
Method (CPT Code)

Compound Name	Units	Reference Comment
Magnesium	mg/g	Normally: Less than 0.15 mg/g.

2551ST Magnesium - Total, Stool

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/OES (83735): Magnesium
Method (CPT Code)

Compound Name	Units	Reference Comment
Magnesium	mg/g	Magnesium concentrations in stool water above the normal levels of 0.7 - 1.2 mg/mL have been indicative of surreptitious abuse of magnesium containing laxatives. NMS Labs Calculated Normal: Approximately 0.5 - 10 mg/g Based on the reported range of magnesium eliminated per day in stool and the range of stool mass per day in adults.

2570H Manganese, Hair

Summary of Changes: Reference Comment was changed.



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Scope of Analysis: ICP/MS (83785): Manganese
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Manganese	mcg/g	Normally: Less than 3 mcg/g.

2670H Mercury, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83825): Mercury
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Mercury	mcg/g	Generally: Less than 2 mcg/g. Concentrations are diet and environment dependent.

2670N Mercury, Nails

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83825): Mercury
Method (CPT Code)

Compound Name	Units	Reference Comment
Mercury	mcg/g	Generally: Less than 1 mcg/g. Concentrations are diet and environment dependent.

2670R Mercury, RBCs

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83825): Mercury
Method (CPT Code)

Compound Name	Units	Reference Comment
Mercury	mcg/L	NMS Labs derived data: 10th - 90th Percentile Data: Mean, 6.4 mcg/L +/- 2.5 (SD); range, 1 - 72 mcg/L (N = 436).

2670TI Mercury, Tissue

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83825): Mercury
Method (CPT Code)



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Compound Name	Units	Reference Comment
Mercury	mcg/g	Soft tissues are typically less than 3 mcg/g. Concentrations vary by chemical form of the mercury exposure, age, diet, environment, time since exposure, etc.

2693H Metals/Metalloids Acute Poisoning Panel, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (82175,83018x4,83655,84255): Arsenic, Selenium, Antimony, Barium, Thallium, Lead, Bismuth
 Method (CPT Code) ICP/MS (None):
 ICP/MS (83825): Mercury
 ICP/MS (None):

Compound Name	Units	Reference Comment
Arsenic	mcg/g	Normally: Less than 2 mcg/g.
Mercury	mcg/g	Generally: Less than 2 mcg/g. Concentrations are diet and environment dependent.
Selenium	mcg/g	Normally: 0.4 - 1.4 mcg/g.
Antimony	mcg/g	Normally: Less than 0.2 mcg/g.
Barium	mcg/g	Normally: Less than 2 mcg/g.
Thallium	mcg/g	Normally: Less than 0.002 mcg/g.
Lead	mcg/g	Normally: Less than 15 mcg/g.
Bismuth	mcg/g	[Reference comment removed]

2661H Metals/Metalloids Panel 1, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83825): Mercury
 Method (CPT Code) ICP/MS (None):
 ICP/MS (82175, 83655): Arsenic, Lead
 ICP/MS (None):

Compound Name	Units	Reference Comment
Arsenic	mcg/g	Normally: Less than 2 mcg/g.
Mercury	mcg/g	Generally: Less than 2 mcg/g. Concentrations are diet and environment dependent.



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Compound Name	Units	Reference Comment
Lead	mcg/g	Normally: Less than 15 mcg/g.

2661N Metals/Metalloids Panel 1, Nails

Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Arsenic	mcg/g	Normally: Less than 2 mcg/g.
Mercury	mcg/g	Generally: Less than 1 mcg/g. Concentrations are diet and environment dependent.
Lead	mcg/g	Normally: Less than 15 mcg/g.

2662H Metals/Metalloids Panel 2, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83785, 83885, 82300, 83018): Manganese, Nickel, Cadmium, Thallium
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Manganese	mcg/g	Normally: Less than 3 mcg/g.
Nickel	mcg/g	Normally: Less than 2 mcg/g.
Cadmium	mcg/g	Normally: Less than 5 mcg/g.
Thallium	mcg/g	Normally: Less than 0.002 mcg/g.

2663H Metals/Metalloids Panel 3, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83825): Mercury
Method (CPT Code) ICP/MS (None):
ICP/MS (82495, 82175, 82300, 83655): Chromium, Arsenic, Cadmium, Lead
ICP/MS (None):

Compound Name	Units	Reference Comment
Chromium	mcg/g	Normally: Less than 3 mcg/g.
Mercury	mcg/g	Generally: Less than 2 mcg/g. Concentrations are diet and environment dependent.



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Test Changes

Compound Name	Units	Reference Comment
Arsenic	mcg/g	Normally: Less than 2 mcg/g.
Cadmium	mcg/g	Normally: Less than 5 mcg/g.
Lead	mcg/g	Normally: Less than 15 mcg/g.

2663N Metals/Metalloids Panel 3, Nails

Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Chromium	mcg/g	[Reference comment removed]
Mercury	mcg/g	Generally: Less than 1 mcg/g. Concentrations are diet and environment dependent.
Arsenic	mcg/g	Normally: Less than 2 mcg/g.
Cadmium	mcg/g	[Reference comment removed]
Lead	mcg/g	Normally: Less than 15 mcg/g.

3090H Molybdenum, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Molybdenum
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Molybdenum	mcg/g	Generally less than 1 mcg/g.

3140H Nickel, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83885): Nickel
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Nickel	mcg/g	Normally: Less than 2 mcg/g.

3765ST Phosphorus - Total, Stool



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Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/OES (84100): Phosphorus
Method (CPT Code)

Compound Name	Units	Reference Comment
Phosphorus	mg/g	Phosphorus concentrations in stool water averaged 1.8 +/- 0.3 mg/mL (ranged from 0.3 - 4.2 mg/mL) following administration of 105 mmol of sodium phosphate. NMS Labs calculated normal: Approximately 1.4 - 22 mg/g. (Based on the reported range of phosphorus eliminated per day in stool and the range of stool mass per day in adults).

4180H Selenium, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (84255): Selenium
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Selenium	mcg/g	Normally: 0.4 - 1.4 mcg/g.

4180N Selenium, Nails

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (84255): Selenium
Method (CPT Code)

Compound Name	Units	Reference Comment
Selenium	mcg/g	Normally: 0.6 - 1.5 mcg/g.

4370H Thallium, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Thallium
Method (CPT Code) ICP/MS (None):

Compound Name	Units	Reference Comment
Thallium	mcg/g	Normally: Less than 0.002 mcg/g.



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4370N Thallium, Nails

Summary of Changes: Reference Comment was changed.

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

Compound Name	Units	Reference Comment
Thallium	mcg/g	Normally: Less than 0.001 mcg/g.

4844H Zinc, Hair

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/OES (84630): Zinc
Method (CPT Code)

Compound Name	Units	Reference Comment
Zinc	mcg/g	General population (not known to be abnormally exposed to Zinc): 110 - 220 mcg Zinc/g hair.

4844N Zinc, Nails

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/OES (84630): Zinc
Method (CPT Code)

Compound Name	Units	Reference Comment
Zinc	mcg/g	Normal: Generally averages approximately 200 mcg/g.