



Effective Date:
Monday, July 13, 2020

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, July 13, 2020

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.



Effective Date:
Monday, July 13, 2020

Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
52491B	Amphetamines Confirmation, Blood							•	
52491SP	Amphetamines Confirmation, Serum/Plasma							•	
0962SP	Cannabidiol, Serum/Plasma			•				•	
10152SP	Cannabinoids Including Cannabidiol, Serum/Plasma (CSA)			•					
0966SP	Cannabis Plus Recent Use Markers, Serum/Plasma			•				•	
1008B	Carbon Monoxide Exposure (Qualitative), Blood								•
1000B	Carboxy-, Met- and Sulf-Hemoglobin, Blood							•	
50014FL	Cocaine and Metabolites Confirmation, Fluid			•					
5637FL	Cocaine and Metabolites Confirmation, Fluid			•					
0606FL	Cocaine and Metabolites Screen, Fluid			•					
1300FL	Cocaine and Metabolites, Fluid			•					
1320B	Colchicine, Blood				•				
1320SP	Colchicine, Serum/Plasma				•				
1858FL	Drugs of Abuse (10 Panel) and Alcohol Screen, Fluid			•					
8091FL	Drugs of Abuse (10 Panel) and Alcohol Screen, Fluid			•					
8101FL	Drugs of Abuse (10 Panel) and Alcohol Screen, Fluid			•					
1864FL	Drugs of Abuse Screen (10 Panel), Fluid			•					
8103B	Environmental Exposure Screen, Blood					•		•	
52287FL	Fluoxetine and Metabolite Confirmation, Fluid			•					
2105FL	Fluoxetine and Metabolite, Fluid			•					
2458SP	Isotretinoin and Metabolite, Serum/Plasma				•				
2456SP	Isotretinoin, Serum/Plasma				•				
52058FL	Ketamine and Metabolite Confirmation, Fluid			•					
2479FL	Ketamine and Metabolite, Fluid			•					
2551SP	Magnesium - Total, Serum/Plasma			•					
2887B	Methemoglobin, Blood							•	
8051FL	Postmortem, Basic, Fluid (Forensic)			•					
8104B	Postmortem, Fire Death Screen, Blood (Forensic)							•	
4177B	Postmortem, SUIDS Screen, Blood (Forensic)							•	



Effective Date:
Monday, July 13, 2020

Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
4235B	Sulfhemoglobin, Blood							•	
4235R	Sulfhemoglobin, RBCs							•	



Test Updates

Test Changes

52491B Amphetamines Confirmation, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: LC-MS/MS (80326, 80359): Amphetamine, Methamphetamine, MDA, MDMA
Method (CPT Code)

Compound Name	Units	Reference Comment
MDMA	ng/mL	Following a single 50 mg oral dose, the mean peak plasma concentration was 110 ng/mL at 2 hours.

52491SP Amphetamines Confirmation, Serum/Plasma

Summary of Changes: Reference Comment was changed.

Scope of Analysis: LC-MS/MS (80326, 80359): Amphetamine, Methamphetamine, MDA, MDMA
Method (CPT Code)

Compound Name	Units	Reference Comment
MDMA	ng/mL	Following a single 50 mg oral dose, the mean peak plasma concentration was 110 ng/mL at 2 hours.

0962SP Cannabidiol, Serum/Plasma

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

Specimen Requirements: 1 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 Fisher 22-038-966 plastic screw capped vial, or similar, using approved guidelines.
 Rejection Criteria: Polymer gel separation tube (SST or PST).
 Scope of Analysis: LC-MS/MS (80349): Cannabidiol
 Method (CPT Code)

Compound Name	Units	Reference Comment
Cannabidiol	ng/mL	Mean peak CBD plasma concentrations at 3-4 hours post-dose with Sativex® at a low dose (5.4 mg of Delta-9 THC and 5.0 mg of Cannabidiol) were 1.6 +/- 0.4 ng/mL and at a high dose (16 mg of Delta-9 THC and 15 mg of Cannabidiol) were 6.7 +/- 2.0 ng/mL. Following high dose 400 and 800 mg oral synthetic CBD



Effective Date:
Monday, July 13, 2020

Test Updates

Test Changes

Compound Name	Units	Reference Comment
		in corn oil administration, mean peak CBD plasma concentrations occurred within 1.5-3 hours post-dose and were 181.2 +/- 39.8 and 221.1 +/- 35.6 ng/mL, respectively. The ratio of blood to serum or plasma concentration is unknown for this analyte. Known Interferences: Excessive amounts of oleamide from plastic tubes.

10152SP Cannabinoids Including Cannabidiol, Serum/Plasma (CSA)

Summary of Changes: 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 Fisher 22-038-966 plastic screw capped vial, or similar, using approved guidelines.
Rejection Criteria: Polymer gel separation tube (SST or PST).

0966SP Cannabis Plus Recent Use Markers, Serum/Plasma

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

Specimen Requirements: 1 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 Fisher 22-038-966 plastic screw capped vial, or similar, using approved guidelines.
Rejection Criteria: Received Room Temperature. Polymer gel separation tube (SST or PST).
Scope of Analysis: LC-MS/MS (80349): 11-Hydroxy Delta-9 THC, Delta-9 Carboxy THC, Delta-9 THC
Method (CPT Code) LC-MS/MS (80349): Cannabidiol, Cannabigerol, Cannabinol



Effective Date:
Monday, July 13, 2020

Test Updates

Test Changes

Compound Name	Units	Reference Comment
Cannabidiol	ng/mL	<p>Mean peak CBD plasma concentrations at 3-4 hours post-dose with Sativex® at a low dose (5.4 mg of Delta-9 THC and 5.0 mg of Cannabidiol) were 1.6 +/- 0.4 ng/mL and at a high dose (16 mg of Delta-9 THC and 15 mg of Cannabidiol) were 6.7 +/- 2.0 ng/mL.</p> <p>Following high dose 400 and 800 mg oral synthetic CBD in corn oil administration, mean peak CBD plasma concentrations occurred within 1.5-3 hours post-dose and were 181.2 +/- 39.8 and 221.1 +/- 35.6 ng/mL, respectively.</p> <p>The ratio of blood to serum or plasma concentration is unknown for this analyte.</p> <p>Known Interferences: Excessive amounts of oleamide from plastic tubes.</p>

1000B Carboxy-, Met- and Sulf-Hemoglobin, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: SP (80307): Carboxyhemoglobin
Method (CPT Code) SP (83050, 83060): Methemoglobin, Sulfhemoglobin

Compound Name	Units	Reference Comment
Methemoglobin	%Saturation	<p>Normal: Up to 1.5%</p> <p>Cyanosis: 10-30%</p> <p>Toxic effects: 30% and greater</p> <p>Methemoglobin will begin increasing several hours following collection of a blood specimen and may increase to extremely elevated values in aged or decomposed specimens.</p>
Sulfhemoglobin	%Saturation	<p>Normal: Up to 2%</p> <p>Sulfhemoglobin may increase to elevated values in aged or decomposed specimens. Postmortem sulfhemoglobin saturation levels must be interpreted with extreme caution.</p>

50014FL Cocaine and Metabolites Confirmation, Fluid

Summary of Changes: Specimen Requirements were changed.



Test Updates

Test Changes

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

5637FL Cocaine and Metabolites Confirmation, Fluid

Summary of Changes: Specimen Requirements 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

0606FL Cocaine and Metabolites Screen, Fluid

Summary of Changes: Specimen Requirements were changed.

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

1300FL Cocaine and Metabolites, Fluid

Summary of Changes: Specimen Requirements 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

1320B Colchicine, Blood



Effective Date:
Monday, July 13, 2020

Test Updates

Test Changes

Summary of Changes: Stability was changed.

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 24 month(s)

1320SP Colchicine, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: 1 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 6 month(s)

1858FL Drugs of Abuse (10 Panel) and Alcohol Screen, Fluid

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements: 9 mL Fluid
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None

8091FL Drugs of Abuse (10 Panel) and Alcohol Screen, Fluid

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements: 9 mL Fluid
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None

8101FL Drugs of Abuse (10 Panel) and Alcohol Screen, Fluid

Summary of Changes: Specimen Requirements were changed.



Test Updates

Test Changes

Specimen Requirements: 9 mL Fluid
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None

1864FL Drugs of Abuse Screen (10 Panel), Fluid

Summary of Changes: Specimen Requirements were changed.

Specimen Requirements: 8 mL Fluid
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None

8103B Environmental Exposure Screen, Blood

Summary of Changes: Scope of Analysis was changed.
Bromine - Total was added.
Reference Comment was changed.
Bromides was removed.

Scope of Analysis: LC-MS/MS (80307): Cyanide
Method (CPT Code) ICP-MS (80307): Bromine - Total
Headspace GC (80307): Ethanol, Blood Alcohol Concentration (BAC), Methanol, Isopropanol, Acetone
ICP/MS (82175): Arsenic, Antimony, Thallium, Lead, Bismuth
ICP/MS (84255): Selenium
ICP/MS (83825): Mercury
GC (83921): Trichloroacetic Acid
Headspace GC (84600): Volatiles
GC (84600): Methane, Ethane, Propane, Isobutane, n-Butane
GC (84600): Halocarbons
EZA (82480): Cholinesterase
SP (80307): Carboxyhemoglobin
SP (83050, 83060): Methemoglobin, Sulfhemoglobin



Effective Date:
Monday, July 13, 2020

Test Updates

Test Changes

Compound Name	Units	Reference Comment
Bromine - Total	mg/L	The population reference interval derived from NMS Labs data (n=136) is usually between 1.4 and 8.8 mg/L (2.5th - 97.5th percentiles). Background concentrations are diet dependent. Workers exposed to methyl bromide with blood bromide concentrations greater than 12 mg/L have shown 3.5 times higher risk of electroencephalogram disturbances than compared to those with normal levels.
Methemoglobin	%Saturation	Normal: Up to 1.5% Cyanosis: 10-30% Toxic effects: 30% and greater Methemoglobin will begin increasing several hours following collection of a blood specimen and may increase to extremely elevated values in aged or decomposed specimens.
Sulfhemoglobin	%Saturation	Normal: Up to 2% Sulfhemoglobin may increase to elevated values in aged or decomposed specimens. Postmortem sulfhemoglobin saturation levels must be interpreted with extreme caution.

52287FL Fluoxetine and Metabolite Confirmation, Fluid

Summary of Changes: Specimen Requirements 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

2105FL Fluoxetine and Metabolite, Fluid

Summary of Changes: Specimen Requirements 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



Test Updates

Test Changes

2458SP Isotretinoin and Metabolite, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Frozen (-70 °C): 14 month(s)

2456SP Isotretinoin, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 4 month(s)
Frozen (-70 °C): 14 month(s)

52058FL Ketamine and Metabolite Confirmation, Fluid

Summary of Changes: Specimen Requirements 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

2479FL Ketamine and Metabolite, Fluid

Summary of Changes: Specimen Requirements 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

2551SP Magnesium - Total, Serum/Plasma

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



Test Updates

Test Changes

- Specimen Requirements: 1 mL Serum or Plasma
- Transport Temperature: Refrigerated
- Specimen Container: 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). Polymer gel separation tube (SST or PST).

2887B Methemoglobin, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: SP (83050): Methemoglobin
Method (CPT Code)

Compound Name	Units	Reference Comment
Methemoglobin	%Saturation	Normal: Up to 1.5% Cyanosis: 10-30% Toxic effects: 30% and greater Methemoglobin will begin increasing several hours following collection of a blood specimen and may increase to extremely elevated values in aged or decomposed specimens.

8051FL Postmortem, Basic, Fluid (Forensic)

Summary of Changes: Specimen Requirements were changed.

- Specimen Requirements: 9 mL Fluid
- Transport Temperature: Refrigerated
- Specimen Container: Plastic container (preservative-free)
- Light Protection: Not Required
- Special Handling: None
- Rejection Criteria: None

8104B Postmortem, Fire Death Screen, Blood (Forensic)

Summary of Changes: Reference Comment was changed.



Effective Date:
Monday, July 13, 2020

Test Updates

Test Changes

Scope of Analysis: LC-MS/MS (80307): Cyanide
Method (CPT Code) ELISA (80307): Opiates, Cocaine / Metabolites, Benzodiazepines, Cannabinoids, Amphetamines, Barbiturates, Methadone / Metabolite, Phencyclidine, Buprenorphine / Metabolite, Methamphetamine / MDMA, Oxycodone / Oxymorphone, Fentanyl / Acetyl Fentanyl
Headspace GC (84600): Volatiles
SP (80307): Carboxyhemoglobin
SP (83050, 83060): Methemoglobin, Sulfhemoglobin

Compound Name	Units	Reference Comment
Methemoglobin	%Saturation	Normal: Up to 1.5% Cyanosis: 10-30% Toxic effects: 30% and greater Methemoglobin will begin increasing several hours following collection of a blood specimen and may increase to extremely elevated values in aged or decomposed specimens.
Sulfhemoglobin	%Saturation	Normal: Up to 2% Sulfhemoglobin may increase to elevated values in aged or decomposed specimens. Postmortem sulfhemoglobin saturation levels must be interpreted with extreme caution.

4177B Postmortem, SUIDS Screen, Blood (Forensic)

Summary of Changes: Reference Comment was changed.

Scope of Analysis:
Method (CPT Code)

Compound Name	Units	Reference Comment
Methemoglobin	%Saturation	Normal: Up to 1.5% Cyanosis: 10-30% Toxic effects: 30% and greater Methemoglobin will begin increasing several hours following collection of a blood specimen and may increase to extremely elevated values in aged or decomposed specimens.
Sulfhemoglobin	%Saturation	Normal: Up to 2% Sulfhemoglobin may increase to elevated values in aged or decomposed specimens. Postmortem sulfhemoglobin saturation levels must be interpreted with extreme caution.

4235B Sulfhemoglobin, Blood

Summary of Changes: Reference Comment was changed.



Effective Date:
Monday, July 13, 2020

Test Updates

Test Changes

Scope of Analysis: SP (83060): Sulfhemoglobin
Method (CPT Code)

Compound Name	Units	Reference Comment
Sulfhemoglobin	%Saturation	Normal: Up to 2% Sulfhemoglobin may increase to elevated values in aged or decomposed specimens. Postmortem sulfhemoglobin saturation levels must be interpreted with extreme caution.

4235R Sulfhemoglobin, RBCs

Summary of Changes: Reference Comment was changed.

Scope of Analysis: SP (83060): Sulfhemoglobin
Method (CPT Code)

Compound Name	Units	Reference Comment
Sulfhemoglobin	%Saturation	Normal: Up to 2% Sulfhemoglobin may increase to elevated values in aged or decomposed specimens. Postmortem sulfhemoglobin saturation levels must be interpreted with extreme caution.



Effective Date:
Monday, July 13, 2020

Test Updates

Discontinued Tests

Test Code	Test Name	Alternative Test
1008B	Carbon Monoxide Exposure (Qualitative), Blood	1009B - Carbon Monoxide Exposure, Blood