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, September 18, 2017

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.
<table>
<thead>
<tr>
<th>Test Code</th>
<th>Test Name</th>
<th>Method / CPT Code</th>
<th>Specimen Req.</th>
<th>Stability</th>
<th>Scope</th>
<th>Units</th>
<th>Reference Comments</th>
<th>Discontinue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1910B</td>
<td>Dyphylline, Blood</td>
<td></td>
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<tr>
<td>1910SP</td>
<td>Dyphylline, Serum/Plasma</td>
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<tr>
<td>1910U</td>
<td>Dyphylline, Urine</td>
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<tr>
<td>10070SP</td>
<td>Perfluorooctanoic Acid (Low Level), Serum/Plasma</td>
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</tr>
<tr>
<td>3426B</td>
<td>Perfluorooctanoic Acid, Blood</td>
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</table>
Test Changes

10070SP  Perfluorooctanoic Acid (Low Level), Serum/Plasma

Summary of Changes:
- Stability was changed.
- Scope of Analysis was changed.
- Perfluorooctanoic Acid (as the linear isomer) was added.
- Perfluorooctanoic Acid was removed.

Stability:
- Room Temperature: 21 day(s)
- Refrigerated: 30 day(s)
- Frozen (-20 °C): 12 month(s)

Scope of Analysis:
- LC-MS/MS (83921): Perfluorooctanoic Acid (as the linear isomer)

<table>
<thead>
<tr>
<th>Compound Name</th>
<th>Units</th>
<th>Reference Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perfluorooctanoic Acid (as the linear isomer)</td>
<td>ng/mL</td>
<td>Population reference interval derived from NMS Labs data (n=151) is usually less than 4.1 ng/mL (90% CI, 3.3 – 8.0 ng/mL) (97.5th percentile) General U.S. population from CDC-NHANES (2013-2014) (n=2165) for the linear isomer is typically below 5.3 ng/mL (95% CI, 4.4 – 6.0 ng/mL) (95th percentile)</td>
</tr>
</tbody>
</table>

3426B  Perfluorooctanoic Acid, Blood

Summary of Changes:
- Specimen Requirements (Rejection Criteria) were changed.
- Stability was changed.
- Scope of Analysis was changed.
- Perfluorooctanoic Acid (as the linear isomer) was added.
- Reference Comment was changed.
- Perfluorooctanoic Acid was removed.

Specimen Requirements:
- 1 mL Blood

Transport Temperature:
- Refrigerated

Specimen Container:
- Lavender top tube (EDTA)

Light Protection:
- Not Required

Special Handling:
- Sample collection devices coated with PTFE/Teflon® and PVDF should be avoided because of potential specimen contamination.

Rejection Criteria:
- None

Stability:
- Room Temperature: 15 day(s)
- Refrigerated: 15 day(s)
- Frozen (-20 °C): 11 month(s)

Scope of Analysis:
- LC-MS/MS (83921): Perfluorooctanoic Acid (as the linear isomer)
Perfluorooctanoic Acid (as the linear isomer)  ng/mL

Population reference interval derived from NMS Labs data (n=151) is usually less than 4.1 ng/mL (90% CI, 3.3 – 8.0 ng/mL) (97.5th percentile).

General U.S. population from CDC-NHANES (2013-2014) (n=2165) for the linear isomer is typically below 5.3 ng/mL (95% CI, 4.4 – 6.0 ng/mL) (95th percentile).

Occupational Exposures:
Mean serum concentrations from workers exposed at facilities that manufacture PFOA or its salts ranged from 840 to 6800 ng/mL (isomers not described). The reported serum range for all workers was 0 to 114000 ng/mL (isomers not described).

The whole blood to serum ratio is 0.55. Whole blood results can be adjusted to the approximate serum equivalent by dividing the blood result by 0.55.

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### 3426SP  Perfluorooctanoic Acid, Serum/Plasma

**Summary of Changes:**
- Specimen Requirements (Rejection Criteria) were changed.
- Stability was changed.
- Scope of Analysis was changed.
- Perfluorooctanoic Acid (as the linear isomer) was added.
- Perfluorooctanoic Acid was removed.

**Specimen Requirements:**
- 1 mL Serum or Plasma

**Transport Temperature:**
- Refrigerated

**Specimen Container:**
- Plastic container (preservative-free)

**Light Protection:**
- Not Required

**Special Handling:**
- Sample collection devices coated with PTFE/Teflon® and PVDF should be avoided because of potential specimen contamination.
- Serum: Collect sample in Red top tube
- Plasma: Collect sample in Lavender top tube (EDTA).
- Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.

**Rejection Criteria:**
- Polymer gel separation tube (SST or PST).

**Stability:**
- Room Temperature: 21 day(s)
- Refrigerated: 30 day(s)
- Frozen (-20 °C): 12 month(s)

**Scope of Analysis:**
- LC-MS/MS (83921): Perfluorooctanoic Acid (as the linear isomer)
## Test Changes

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## Discontinued Tests

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<th>Alternative Test</th>
</tr>
</thead>
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<tr>
<td>1910B</td>
<td>Dyphylline, Blood</td>
<td>No Alternate Tests Available</td>
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<tr>
<td>1910SP</td>
<td>Dyphylline, Serum/Plasma</td>
<td>No Alternate Tests Available</td>
</tr>
<tr>
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<td>Dyphylline, Urine</td>
<td>No Alternate Tests Available</td>
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</tbody>
</table>