



June 28, 2010

Dear Valued Client:

In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled the enclosed packet of important changes regarding a number of tests we perform. Listed below are the types of changes included in this packet.

<b>Type of Change</b>	<b>Explanation</b>
<b>New Tests</b>	<b>Tests recently added to the NMS Labs test menu. New Tests are effective immediately.</b>
<b>Test Changes</b>	<b>Tests that have had changes to their method/CPT code, units of measurement, scope of analysis or specimen requirements.</b>
<b>Discontinued Tests</b>	<b>Tests being discontinued with alternate testing suggestions.</b>

Please be advised all changes listed in this packet will go into effect on **October 4, 2010**. Please use this packet of 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 packet, 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.

Sincerely,

NMS Labs

**Database Changes - Summary**

Test Code	Test Name	New Test	Method/ CPT code	Units	Scope	Specimen Reqs	Stability	Discontinued	Reference Comment	Misc.
0021R	Acetaldehyde, RBCs							•		
0165R	Albuterol, RBCs							•		
0802R	Buprenorphine and Metabolite Screen - Free (Unconjugated), RBCs							•		
0803B	Bupropion and Metabolite, Blood								•	
0803SP	Bupropion and Metabolite, Serum/Plasma								•	
0803U	Bupropion and Metabolite, Urine								•	
0885R	Butorphanol Screen - Free (Unconjugated), RBCs							•		
4226R	Sulfamethoxazole, RBCs							•		
4229R	Sulfapyridine, RBCs							•		
4844SP	Zinc, Serum/Plasma						•			
4844U	Zinc, Urine						•			
5466B	Bupropion and Metabolite Confirmation, Blood								•	
5466SP	Bupropion and Metabolite Confirmation, Serum/Plasma								•	
5466U	Bupropion and Metabolite Confirmation, Urine								•	
8670R	Opiates - Total (Conjugated/Unconjugated), RBCs							•		
9122B	Bupropion and Metabolite Screen, Blood								•	
9122SP	Bupropion and Metabolite Screen, Serum/Plasma								•	
9122U	Bupropion and Metabolite Screen, Urine								•	

**NMS Labs**

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Updates effective:  
October 4, 2010

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**TEST UPDATES**

**Method/CPT Code\*, Units of Measurement, Scope of Analysis and Specimen Requirements**

Test Code	Test Name	Units	Method / CPT Code
<b>4844SP</b>	<b>Zinc, Serum/Plasma</b> Stability: Room Temperature: 28 day(s) Refrigerated: 28 day(s) Frozen (-20 °C): 28 day(s)		
Summary of Updates:		For Quality Improvement purposes the following updates were made. Stability was changed.	
<b>4844U</b>	<b>Zinc, Urine</b> Stability: Room Temperature: 5 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 28 day(s)		
Summary of Updates:		For Quality Improvement purposes the following updates were made. Stability was changed.	

**DISCONTINUED TESTS**

Test Code	Test Name	Alternative Test
0021R	Acetaldehyde, RBCs	0021B Acetaldehyde, Blood
0165R	Albuterol, RBCs	0165B Albuterol, Blood
0802R	Buprenorphine and Metabolite Screen - Free (Unconjugated), RBCs	0802B Buprenorphine and Metabolite Screen - Free (Unconjugated), Blood
0885R	Butorphanol Screen - Free (Unconjugated), RBCs	0885B Butorphanol Screen - Free (Unconjugated), Blood
4226R	Sulfamethoxazole, RBCs	4226B Sulfamethoxazole, Blood
4229R	Sulfapyridine, RBCs	4229B Sulfapyridine, Blood
8670R	Opiates - Total (Conjugated/Unconjugated), RBCs	8670B Opiates - Total (Conjugated/Unconjugated), Blood

**REFERENCE COMMENT CHANGES**

<b>Test Code</b>	<b>Test Name / Compound</b>	<b>New Reference Comment</b>
<b>0803B</b>	<b>Bupropion and Metabolite, Blood</b> <ul style="list-style-type: none"><li>• Bupropion</li>          <li>• Hydroxybupropion</li></ul>	<p>Maximum antidepressant response was observed at trough plasma concentrations of 50 - 100 ng/mL bupropion with virtually no response below 25 ng/mL. Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 25 +/- 8 ng/mL bupropion 200 mg/day (n = 8), 53 +/- 22 ng/mL bupropion</p> <p>The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.</p> <p>Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p> <p>Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 450 +/- 210 ng/mL hydroxybupropion 200 mg/day (n = 8), 710 +/- 350 ng/mL hydroxybupropion</p> <p>The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.</p>
<b>0803SP</b>	<b>Bupropion and Metabolite, Serum/Plasma</b> <ul style="list-style-type: none"><li>• Bupropion</li>          <li>• Hydroxybupropion</li></ul>	<p>Maximum antidepressant response was observed at trough plasma concentrations of 50 - 100 ng/mL bupropion with virtually no response below 25 ng/mL. Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 25 +/- 8 ng/mL bupropion 200 mg/day (n = 8), 53 +/- 22 ng/mL bupropion Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p> <p>Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 450 +/- 210 ng/mL hydroxybupropion 200 mg/day (n = 8), 710 +/- 350 ng/mL hydroxybupropion</p>

**REFERENCE COMMENT CHANGES**

<b>Test Code</b>	<b>Test Name / Compound</b>	<b>New Reference Comment</b>
<b>0803U</b>	<b>Bupropion and Metabolite, Urine</b> <ul style="list-style-type: none"><li>• Bupropion</li>      <li>• Hydroxybupropion</li></ul>	<p>Less than 0.5% of an oral dose is excreted unchanged in urine.</p> <p>Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p>  <p>Urinary elimination of hydroxybupropion accounts for approximately 4% of a bupropion dose</p>
<b>9122B</b>	<b>Bupropion and Metabolite Screen, Blood</b> <ul style="list-style-type: none"><li>• Bupropion</li>                      <li>• Hydroxybupropion</li></ul>	<p>Maximum antidepressant response was observed at trough plasma concentrations of 50 - 100 ng/mL bupropion with virtually no response below 25 ng/mL. Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 25 +/- 8 ng/mL bupropion 200 mg/day (n = 8), 53 +/- 22 ng/mL bupropion</p> <p>The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.</p> <p>Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p>  <p>Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 450 +/- 210 ng/mL hydroxybupropion 200 mg/day (n = 8), 710 +/- 350 ng/mL hydroxybupropion</p> <p>The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.</p>

**REFERENCE COMMENT CHANGES**

<b>Test Code</b>	<b>Test Name / Compound</b>	<b>New Reference Comment</b>
<b>9122SP</b>	<p><b>Bupropion and Metabolite Screen, Serum/Plasma</b></p> <ul style="list-style-type: none"> <li>• Bupropion</li>          <li>• Hydroxybupropion</li> </ul>	<p>Maximum antidepressant response was observed at trough plasma concentrations of 50 - 100 ng/mL bupropion with virtually no response below 25 ng/mL. Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 25 +/- 8 ng/mL bupropion 200 mg/day (n = 8), 53 +/- 22 ng/mL bupropion Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p> <p>Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 450 +/- 210 ng/mL hydroxybupropion 200 mg/day (n = 8), 710 +/- 350 ng/mL hydroxybupropion</p>
<b>9122U</b>	<p><b>Bupropion and Metabolite Screen, Urine</b></p> <ul style="list-style-type: none"> <li>• Bupropion</li>          <li>• Hydroxybupropion</li> </ul>	<p>Less than 0.5% of an oral dose is excreted unchanged in urine. Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p> <p>Urinary elimination of hydroxybupropion accounts for approximately 4% of a bupropion dose</p>

**REFERENCE COMMENT CHANGES**

Test Code	Test Name / Compound	New Reference Comment
5466B	<p><b>Bupropion and Metabolite Confirmation, Blood</b></p> <ul style="list-style-type: none"> <li><b>Bupropion</b></li> <li><b>Hydroxybupropion</b></li> </ul>	<p>Maximum antidepressant response was observed at trough plasma concentrations of 50 - 100 ng/mL bupropion with virtually no response below 25 ng/mL. Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 25 +/- 8 ng/mL bupropion 200 mg/day (n = 8), 53 +/- 22 ng/mL bupropion</p> <p>The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.</p> <p>Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p> <p>Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 450 +/- 210 ng/mL hydroxybupropion 200 mg/day (n = 8), 710 +/- 350 ng/mL hydroxybupropion</p> <p>The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.</p>
5466SP	<p><b>Bupropion and Metabolite Confirmation, Serum/Plasma</b></p> <ul style="list-style-type: none"> <li><b>Bupropion</b></li> <li><b>Hydroxybupropion</b></li> </ul>	<p>Maximum antidepressant response was observed at trough plasma concentrations of 50 - 100 ng/mL bupropion with virtually no response below 25 ng/mL. Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 25 +/- 8 ng/mL bupropion 200 mg/day (n = 8), 53 +/- 22 ng/mL bupropion Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.</p> <p>Juvenile patients taking once daily, extended release bupropion for two weeks had the following peak plasma levels: 100 mg/day (n = 11), 450 +/- 210 ng/mL hydroxybupropion 200 mg/day (n = 8), 710 +/- 350 ng/mL hydroxybupropion</p>

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## REFERENCE COMMENT CHANGES

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5466U	<b>Bupropion and Metabolite Confirmation, Urine</b> <ul style="list-style-type: none"><li data-bbox="261 449 444 478">• <b>Bupropion</b></li> <li data-bbox="261 632 548 661">• <b>Hydroxybupropion</b></li></ul>	Less than 0.5% of an oral dose is excreted unchanged in urine. Specimens must be kept frozen. If specimens are not kept frozen, this may cause lower or negative values.  Urinary elimination of hydroxybupropion accounts for approximately 4% of a bupropion dose