



Effective Date:

Monday, August 29, 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, August 29, 2011

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.

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
2089B	Fluconazole, Blood	•								
2089SP	Fluconazole, Serum/Plasma	•								
2460B	Itraconazole, Blood			•	•	•			•	
2460SP	Itraconazole, Serum/Plasma			•	•	•			•	
2485B	Ketoconazole, Blood			•	•	•			•	
2485SP	Ketoconazole, Serum/Plasma			•	•	•			•	
3790B	Posaconazole, Blood	•								
3790SP	Posaconazole, Serum/Plasma	•								
9560B	Synthetic Cannabinoids Screen, Blood (Forensic)					•	•			
4782B	Voriconazole, Blood				•					



New Tests and Test Updates

New Tests

2089B	Fluconazole, Blood	Effective Immediately
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Scope of Analysis: Fluconazole [LC-MS/MS]
 Method(s): High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
 Purpose: Therapeutic Drug Monitoring
 Category: Antifungal
 Specimen Requirements: 1 mL Blood
 Minimum Volume: 0.22 mL
 Special Handling: None
 Specimen Container: Lavender top tube (EDTA)
 Transport Temperature: Refrigerated
 Light Protection: Not Required
 Rejection Criteria: None
 Stability: Room Temperature: 30 day(s)
 Refrigerated: 30 day(s)
 Frozen (-20 °C): 30 day(s)

Method: High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Set-Up Days / TAT: Monday Wednesday Friday 2 days (after set-up)
 CPT Code: 83789

Compound Name / Alias	Units	RL	Reference Comment
Fluconazole Diflucan®	mcg/mL	0.5	Single oral doses of 50 or 150 mg fluconazole resulted in peak plasma concentrations of 0.93 +/- 0.13 mcg/mL and 2.7 +/- 0.4 mcg/mL respectively. Peak plasma concentrations were 6.7 mcg/mL (range 4.1 - 8.1 mcg/mL) approximately 1 to 2 hours after a single 400 mg oral dose of fluconazole. The blood to plasma ratio is not known for this compound.

2089SP	Fluconazole, Serum/Plasma	Effective Immediately
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Scope of Analysis: Fluconazole [LC-MS/MS]
 Method(s): High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
 Purpose: Therapeutic Drug Monitoring
 Category: Antifungal
 Specimen Requirements: 1 mL Serum or Plasma
 Minimum Volume: 0.22 mL
 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 plastic screw capped vial using approved guidelines.
 Specimen Container: Plastic container (preservative-free)
 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)



New Tests and Test Updates

New Tests

Method: High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Set-Up Days / TAT: Monday Wednesday Friday 2 days (after set-up)
CPT Code: 83789

Compound Name / Alias	Units	RL	Reference Comment
Fluconazole Diflucan®	mcg/mL	0.5	Single oral doses of 50 or 150 mg fluconazole resulted in peak plasma concentrations of 0.93 +/- 0.13 mcg/mL and 2.7 +/- 0.4 mcg/mL respectively. Peak plasma concentrations were 6.7 mcg/mL (range 4.1 - 8.1 mcg/mL) approximately 1 to 2 hours after a single 400 mg oral dose of fluconazole.

3790B Posaconazole, Blood Effective Immediately

Scope of Analysis: Posaconazole [LC-MS/MS]
Method(s): High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
Purpose: Therapeutic Drug Monitoring
Category: Triazole Antifungal
Specimen Requirements: 1 mL Blood
Minimum Volume: 0.4 mL
Special Handling: None
Specimen Container: Lavender top tube (EDTA)
Transport Temperature: Refrigerated
Light Protection: Not Required
Rejection Criteria: None
Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)

Method: High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Set-Up Days / TAT: Monday Wednesday Friday 2 days (after set-up)
CPT Code: 83789

Compound Name / Alias	Units	RL	Reference Comment
Posaconazole Noxafil®	mcg/mL	0.05	The average peak plasma concentration of posaconazole was 0.51 mcg/mL (range 0.24 - 1.0) five hours after a single 200 mg oral dose administered with a high-fat meal. Steady state plasma concentrations averaged 0.72 mcg/mL (range 0.007 - 2.2) after ten days of twice daily administration of 400 mg posaconazole.

The blood to plasma ratio is not known for this compound.

3790SP Posaconazole, Serum/Plasma Effective Immediately

Scope of Analysis: Posaconazole [LC-MS/MS]
Method(s): High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
Purpose: Therapeutic Drug Monitoring
Category: Triazole Antifungal
Specimen Requirements: 1 mL Serum or Plasma
Minimum Volume: 0.4 mL



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New Tests

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 plastic screw capped vial using approved guidelines.

Specimen Container: Plastic container (preservative-free)

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)

Method: High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Set-Up Days / TAT: Monday Wednesday Friday 2 days (after set-up)

CPT Code: 83789

Compound Name / Alias	Units	RL	Reference Comment
Posaconazole Noxafil®	mcg/mL	0.05	The average peak plasma concentration of posaconazole was 0.51 mcg/mL (range 0.24 - 1.0) five hours after a single 200 mg oral dose administered with a high-fat meal. Steady state plasma concentrations averaged 0.72 mcg/mL (range 0.007 - 2.2) after ten days of twice daily administration of 400 mg posaconazole.



New Tests and Test Updates

Test Changes

2460B Itraconazole, Blood

Summary of Changes: Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Stability was changed.
Reference Comment was changed.
Methods/CPT Codes were changed [LC-MS/MS (83789)]

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Lavender top tube (EDTA)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None
Stability: Room Temperature: 14 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83789): Itraconazole
Method (CPT Code)

Compound Name	Units	Reference Comment
Itraconazole	mcg/mL	Under therapeutic steady-state conditions with twice daily oral doses of 200 mg, plasma itraconazole concentrations were 1.9 +/- 0.45 mcg/mL. A trough serum level greater than 0.25 mcg/mL is necessary for effective protection against fungal infection. The blood to plasma ratio is not known for this compound.

2460SP Itraconazole, Serum/Plasma

Summary of Changes: Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Specimen Requirements (Special Handling) were changed.
Stability was changed.
Reference Comment was changed.
Methods/CPT Codes were changed [LC-MS/MS (83789)]



New Tests and Test Updates

Test Changes

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 plastic screw capped vial using approved guidelines.
 Rejection Criteria: Polymer gel separation tube (SST or PST).
 Stability: Room Temperature: 14 day(s)
 Refrigerated: 30 day(s)
 Frozen (-20 °C): 30 day(s)
 Scope of Analysis: LC-MS/MS (83789): Itraconazole
 Method (CPT Code)

Compound Name	Units	Reference Comment
Itraconazole	mcg/mL	Under therapeutic steady-state conditions with twice daily oral doses of 200 mg, plasma itraconazole concentrations were 1.9 +/- 0.45 mcg/mL. A trough serum level greater than 0.25 mcg/mL is necessary for effective protection against fungal infection.

2485B Ketoconazole, Blood

Summary of Changes: Specimen Requirements were changed.
 Specimen Requirements (Specimen Container) were changed.
 Stability was changed.
 Reference Comment was changed.
 Methods/CPT Codes were changed [LC-MS/MS (83789)]

Specimen Requirements: 1 mL Blood
 Transport Temperature: Refrigerated
 Specimen Container: Lavender top tube (EDTA)
 Light Protection: Not Required
 Special Handling: None
 Rejection Criteria: None
 Stability: Room Temperature: 30 day(s)
 Refrigerated: 30 day(s)
 Frozen (-20 °C): 30 day(s)
 Scope of Analysis: LC-MS/MS (83789): Ketoconazole
 Method (CPT Code)



New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Ketoconazole	mcg/mL	Peak plasma levels of 5.4 +/- 1.7 mcg/mL occurred at approximately 1 hour following a single 200 mg dose and peak plasma levels of 22 +/- 3 mcg/mL occurred at approximately 2 hours following a single 800 mg dose of ketoconazole.

The blood to plasma ratio is 0.6 for this compound.

2485SP Ketoconazole, Serum/Plasma

Summary of Changes: Specimen Requirements were changed.
 Specimen Requirements (Specimen Container) were changed.
 Specimen Requirements (Special Handling) were changed.
 Stability was changed.
 Reference Comment was changed.
 Methods/CPT Codes were changed [LC-MS/MS (83789)]

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 plastic screw capped vial using approved guidelines.
 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)
 Scope of Analysis: LC-MS/MS (83789): Ketoconazole
 Method (CPT Code)

Compound Name	Units	Reference Comment
Ketoconazole	mcg/mL	Peak plasma levels of 5.4 +/- 1.7 mcg/mL occurred at approximately 1 hour following a single 200 mg dose and peak plasma levels of 22 +/- 3 mcg/mL occurred at approximately 2 hours following a single 800 mg dose of ketoconazole.

9560B Synthetic Cannabinoids Screen, Blood (Forensic)

Summary of Changes: Stability was changed.
 Scope of Analysis was changed.
 Order of Reporting was changed.



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Test Changes

Stability: Room Temperature: 2 day(s)

Refrigerated: 14 day(s)

Frozen (-20 °C): 30 day(s)

Scope of Analysis: LC-MS/MS (80100): JWH-200, AM-2201, JWH-250, AM-694, RCS-4, JWH-073,
Method (CPT Code) JWH-018, JWH-081, JWH-122, JWH-019, JWH-210, RCS-8

4782B Voriconazole, Blood

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

Specimen Requirements: 1 mL Blood

Transport Temperature: Refrigerated

Specimen Container: Lavender top tube (EDTA)

Light Protection: Not Required

Special Handling: None

Rejection Criteria: None