Effective Date:

Monday, April 04, 2011

New Tests and 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, April 04, 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.

NMS LABS
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Willow Grove, PA 19090
www.NMSLabs.com

New Tests and Test Updates

Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
0011U	2-Butoxyethanol Metabolite (2-Butoxyacetic Acid - Total), Urine	•								
52021B	Citalopram Confirmation, Blood (Forensic)			•	•	•				
53021B	Citalopram Confirmation, Blood (Forensic)			•	•	•				
52021FL	Citalopram Confirmation, Fluid (Forensic)			•	•					
53021FL	Citalopram Confirmation, Fluid (Forensic)			•	•					
52021SP	Citalopram Confirmation, Serum/Plasma (Forensic)			•	•	•				
53021SP	Citalopram Confirmation, Serum/Plasma (Forensic)			•	•	•				
52021TI	Citalopram Confirmation, Tissue (Forensic)			•						
53021TI	Citalopram Confirmation, Tissue (Forensic)			•						
52021U	Citalopram Confirmation, Urine (Forensic)			•	•	•				
53021U	Citalopram Confirmation, Urine (Forensic)			•	•	•				
1272B	Citalopram, Blood			•	•	•	•			
1272FL	Citalopram, Fluid			•	•		•			
1272SP	Citalopram, Serum/Plasma			•	•	•	•			
1272TI	Citalopram, Tissue			•			•			
1272U	Citalopram, Urine			•	•	•	•			
8661B	Codeine and Metabolite - Free (Unconjugated), Blood					•				
8265B	Codeine and Metabolite - Free (Unconjugated), Blood (Forensic)					•				
8661SP	Codeine and Metabolite - Free (Unconjugated), Serum/Plasma					•				
54221B	Drug Impaired Driving/DRE Toxicology Citalopram Confirmation, Blood (Forensic)			•	•	•				
54221U	Drug Impaired Driving/DRE Toxicology Citalopram Confirmation, Urine (Forensic)			•	•	•				
1869B	Drug Screen, Blood (Forensic)									•
1869FL	Drug Screen, Fluid (Forensic)									•
1869SP	Drug Screen, Serum/Plasma (Forensic)									•
1869TI	Drug Screen, Tissue (Forensic)									•
1869U	Drug Screen, Urine (Forensic)									•
1965B	Escitalopram, Blood			•	•	•	•		•	

Effective Date:

Monday, April 04, 2011

New Tests and Test Updates

Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
1965FL	Escitalopram, Fluid			•	•		•			
1965SP	Escitalopram, Serum/Plasma			•	•	•	•		•	
1965TI	Escitalopram, Tissue			•			•			
1965U	Escitalopram, Urine			•	•	•	•			
7541B	Ethanol - Title 17, Blood									•
7541U	Ethanol - Title 17, Urine									•
0649SP	Methotrexate, Serum/Plasma	•								
5424B	Morphine - Free (Unconjugated) Confirmation, Blood								•	
5424SP	Morphine - Free (Unconjugated) Confirmation, Serum/Plasma								•	
8666B	Morphine - Free (Unconjugated), Blood					•			•	
8666SP	Morphine - Free (Unconjugated), Serum/Plasma					•			•	
8673B	Morphine - Free and Total, Blood					•			•	
8673SP	Morphine - Free and Total, Serum/Plasma								•	
5590B	Opiates (Low Dose) - Free (Unconjugated) Confirmation, Blood								•	
5590SP	Opiates (Low Dose) - Free (Unconjugated) Confirmation, Serum/Plasma				•				•	
3237B	Opiates (Low Dose) - Free (Unconjugated) Screen, Blood								•	
3237SP	Opiates (Low Dose) - Free (Unconjugated) Screen, Serum/Plasma								•	
5645B	Opiates - Free (Unconjugated) Confirmation, Blood								•	
5645SP	Opiates - Free (Unconjugated) Confirmation, Serum/Plasma								•	
8660B	Opiates - Free (Unconjugated), Blood								•	
3241B	Opiates - Free (Unconjugated), Blood (Forensic)					•			•	
8660SP	Opiates - Free (Unconjugated), Serum/Plasma								•	
3241SP	Opiates - Free (Unconjugated), Serum/Plasma (Forensic)					•			•	
8671B	Opiates - Free and Total, Blood								•	
8671SP	Opiates - Free and Total, Serum/Plasma								•	
7604SP	Testosterone - Free, Serum/Plasma	•								

Effective Date:

Monday, April 04, 2011

New Tests and Test Updates

Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
4350B	Tetrahydrozoline, Blood	•								
4350SP	Tetrahydrozoline, Serum/Plasma	•								
4350U	Tetrahydrozoline, Urine	•								
8097B	Therapeutic and Abused Drugs Screen, Blood (Forensic)									•
8099B	Therapeutic and Abused Drugs Screen, Blood (Forensic)									•
8107B	Therapeutic and Abused Drugs Screen, Blood (Forensic)									•
8097FL	Therapeutic and Abused Drugs Screen, Fluid (Forensic)									•
8107FL	Therapeutic and Abused Drugs Screen, Fluid (Forensic)									•
8097SP	Therapeutic and Abused Drugs Screen, Serum/Plasma (Forensic)									•
8107SP	Therapeutic and Abused Drugs Screen, Serum/Plasma (Forensic)									•
8107TI	Therapeutic and Abused Drugs Screen, Tissue (Forensic)									•
8097U	Therapeutic and Abused Drugs Screen, Urine (Forensic)									•
8107U	Therapeutic and Abused Drugs Screen, Urine (Forensic)									•
8109B	Therapeutic and Abused Drugs with CO/Cyanide Screen, Blood (Forensic)									•

New Tests and Test Updates

New Tests

0011U 2-Butoxyethanol Metabolite (2-Butoxyacetic Acid - Total), Urine — Effective Immediately

Scope of Analysis: 2-Butoxyacetic Acid - Total [GC/MS]
Method(s): Gas Chromatography/Mass Spectrometry (GC/MS)
Purpose: Exposure Monitoring
Category: Biological Marker (Renal)
Specimen Requirements: 2 mL Urine
Minimum Volume: 0.7 mL
Special Handling: None
Specimen Container: Plastic container (preservative-free)
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: Gas Chromatography/Mass Spectrometry (GC/MS)

Set-Up Days / TAT: Tuesday Thursday 3 days (after set-up)
CPT Code: 82542

Compound Name / Alias	Units	RL	Reference Comment
2-Butoxyacetic Acid - Total 2-Butoxyethanol Metabolite; BAA; Butoxyacetic Acid; Butyl Cellosolve® Metabolite; Ethylene Glycol Monobutyl Ether (EGBE) Metabolite; n-Butoxyacetic Acid	mcg/mL	0.5	In urine, a reference value for non-occupationally exposed individuals is less than 1 mcg/mL.

0649SP Methotrexate, Serum/Plasma — Effective Immediately

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

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

Set-Up Days / TAT: Monday 3 days (after set-up)
CPT Code: 83789

Compound Name / Alias	Units	RL	Reference Comment
Methotrexate 4-Amino-10-methylfolic acid; Alpha-methopterin; Amethopterin; Hethylaminopterin; MTX; Methotrexatum; Rheumatrex®; Trexall®	umol/L	0.0088	Cancer patients: 50 mg oral doses each hour for 16 hours achieved peak plasma concentrations after the last dose averaging 8.4 umol/L; the same dose given by 16 hour intravenous infusion resulted in an average plasma concentration of 9.9 umol/L at the end of the infusion. Therapeutic monitoring is generally performed to ensure that plasma concentrations are below 1 umol/L at 48 hours after an infusion, or below 0.1 umol/L at 72 hours. In patients diagnosed with psoriasis, the plasma median level was 0.095 umol/L at week 13 following a 7.5 mg weekly dose divided into three 2.5 mg doses given every 12 hours. In this same study, the plasma median level was 0.157 umol/L at week 13 following a 15 mg weekly dose divided into three 5 mg doses given every 12 hours. Rheumatoid Arthritis (RA) patients: A single 10 mg intramuscular dose produced an average peak concentration of 0.77 umol/L that declined with an average elimination half-life of 8.1 hours.

New Tests and Test Updates

New Tests

7604SP Testosterone - Free, Serum/Plasma — Effective Immediately

Scope of Analysis:	Testosterone - Free [LC-MS/MS]
Method(s):	High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
Purpose:	Endocrinology
Category:	Endocrinology
Specimen Requirements:	1 mL Serum or Plasma
Minimum Volume:	0.45 mL
Special Handling:	Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.
Specimen Container:	Plastic container (preservative-free)
Transport Temperature:	Frozen
Light Protection:	Not Required
Rejection Criteria:	Received Room Temperature.
Stability:	Room Temperature: 3 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 12 month(s)

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

Set-Up Days / TAT:	Monday Thursday 5 days (after set-up)
CPT Code:	84402

Compound Name / Alias	Units	RL	Reference Comment
Testosterone - Free	pg/mL	1	Reference Intervals for Females: Age 18 years and above: 0.8 - 10 pg/mL Reference Intervals for Males: Age 18 years and above: 43 - 180 pg/mL

4350B Tetrahydrozoline, Blood — Effective Immediately

Scope of Analysis:	Tetrahydrozoline [LC-MS/MS]
Method(s):	High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
Purpose:	Forensic Analysis
Category:	Occular Vasoconstrictor
Specimen Requirements:	1 mL Blood
Minimum Volume:	0.45 mL
Special Handling:	None
Specimen Container:	Gray top tube (Sodium Fluoride / Potassium Oxalate)
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:	Tuesday 2nd Shift 3 days (after set-up)
CPT Code:	83789

Compound Name / Alias	Units	RL	Reference Comment
Tetrahydrozoline Murine Tears Plus®; Tetryzoline; Tyzine®; Visine®	ng/mL	0.1	Whole blood concentrations of tetrahydrozoline have not been reported.

New Tests and Test Updates

New Tests

4350SP Tetrahydrozoline, Serum/Plasma — Effective Immediately

Scope of Analysis:	Tetrahydrozoline [LC-MS/MS]
Method(s):	High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
Purpose:	Forensic Analysis
Category:	Occular Vasoconstrictor
Specimen Requirements:	2 mL Serum or Plasma
Minimum Volume:	0.7 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)

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

Set-Up Days / TAT:	Tuesday 2nd Shift 3 days (after set-up)
CPT Code:	83789

Compound Name / Alias	Units	RL	Reference Comment
Tetrahydrozoline Murine Tears Plus®; Tetryzoline; Tyzine®; Visine®	ng/mL	0.05	Serum/plasma concentrations of tetrahydrozoline have not been reported.

4350U Tetrahydrozoline, Urine — Effective Immediately

Scope of Analysis:	Tetrahydrozoline [LC-MS/MS]
Method(s):	High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
Purpose:	Forensic Analysis
Category:	Occular Vasoconstrictor
Specimen Requirements:	2 mL Urine
Minimum Volume:	0.7 mL
Special Handling:	None
Specimen Container:	Plastic container (preservative-free)
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:	Tuesday 2nd Shift 3 days (after set-up)
CPT Code:	83789

Compound Name / Alias	Units	RL	Reference Comment
Tetrahydrozoline Murine Tears Plus®; Tetryzoline; Tyzine®; Visine®	ng/mL	0.05	Urine concentrations of tetrahydrozoline have not been reported.

New Tests and Test Updates

Test Changes

52021B Citalopram Confirmation, Blood (Forensic)

Summary of Changes:	Specimen Requirements were changed. Stability 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: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 14 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

53021B Citalopram Confirmation, Blood (Forensic)

Summary of Changes:	Specimen Requirements were changed. Stability 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: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 14 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

52021FL Citalopram Confirmation, Fluid (Forensic)

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

New Tests and Test Updates

Test Changes

Specimen Requirements:	1 mL Fluid
Transport Temperature:	Refrigerated
Specimen Container:	NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test.
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

53021FL Citalopram Confirmation, Fluid (Forensic)

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

Specimen Requirements:	1 mL Fluid
Transport Temperature:	Refrigerated
Specimen Container:	NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test.
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

52021SP Citalopram Confirmation, Serum/Plasma (Forensic)

Summary of Changes:	Specimen Requirements were changed. Stability 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)

New Tests and Test Updates

Test Changes

Scope of Analysis: LC-MS/MS (83789): Citalopram / Escitalopram
Method (CPT Code)

53021SP Citalopram Confirmation, Serum/Plasma (Forensic)

Summary of Changes: Specimen Requirements were changed.
Stability 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): Citalopram / Escitalopram
Method (CPT Code)

52021TI Citalopram Confirmation, Tissue (Forensic)

Summary of Changes: Methods/CPT Codes were changed [LC-MS/MS (80103, 83789)]

Scope of Analysis: LC-MS/MS (80103, 83789): Citalopram / Escitalopram
Method (CPT Code)

53021TI Citalopram Confirmation, Tissue (Forensic)

Summary of Changes: Methods/CPT Codes were changed [LC-MS/MS (80103, 83789)]

Scope of Analysis: LC-MS/MS (80103, 83789): Citalopram / Escitalopram
Method (CPT Code)

52021U Citalopram Confirmation, Urine (Forensic)

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

New Tests and Test Updates

Test Changes

Specimen Requirements:	1 mL Urine
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
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: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

53021U Citalopram Confirmation, Urine (Forensic)

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

Specimen Requirements:	1 mL Urine
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
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: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

1272B Citalopram, Blood

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Scope of Analysis 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

New Tests and Test Updates

Test Changes

Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 14 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

1272FL Citalopram, Fluid

Summary of Changes:	Specimen Requirements were changed. Scope of Analysis was changed. Methods/CPT Codes were changed [LC-MS/MS (83789)]

Specimen Requirements:	1 mL Fluid
Transport Temperature:	Refrigerated
Specimen Container:	NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test.
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

1272SP Citalopram, Serum/Plasma

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Scope of Analysis 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: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

1272TI Citalopram, Tissue

New Tests and Test Updates

Test Changes

Summary of Changes:	Scope of Analysis was changed. Methods/CPT Codes were changed [LC-MS/MS (80103, 83789)]
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80103, 83789): Citalopram / Escitalopram

1272U Citalopram, Urine

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Scope of Analysis was changed. Methods/CPT Codes were changed [LC-MS/MS (83789)]
Specimen Requirements:	1 mL Urine
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
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: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

8265B Codeine and Metabolite - Free (Unconjugated), Blood (Forensic)

Summary of Changes:	Stability was changed.
Stability:	Room Temperature: 7 day(s) Refrigerated: 10 day(s) Frozen (-20 °C): 30 day(s)

8661B Codeine and Metabolite - Free (Unconjugated), Blood

Summary of Changes:	Stability was changed.
Stability:	Room Temperature: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)

8661SP Codeine and Metabolite - Free (Unconjugated), Serum/Plasma

Summary of Changes:	Stability was changed.
Stability:	Room Temperature: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)

New Tests and Test Updates

Test Changes

54221B Drug Impaired Driving/DRE Toxicology Citalopram Confirmation, Blood (Forensic)

Summary of Changes:	Specimen Requirements were changed. Stability 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: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 14 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

54221U Drug Impaired Driving/DRE Toxicology Citalopram Confirmation, Urine (Forensic)

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

Specimen Requirements:	1 mL Urine
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
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: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

1965B Escitalopram, Blood

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Scope of Analysis 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 Blood
Transport Temperature:	Refrigerated
Specimen Container:	Lavender top tube (EDTA)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Stability:	Room Temperature: 7 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 14 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

Compound Name	Units	Reference Comment
Citalopram / Escitalopram	ng/mL	Steady-state peak plasma levels from patients on regimen of 10 or 30 mg/day of Escitalopram: 21 and 64 ng/mL, respectively, and occur at approximately 4 hours post dose. This test is not Chiral specific. Patients who have taken Racemic Citalopram (Celexa®), as opposed to Escitalopram (Lexapro®), within the past 3 days may have falsely elevated values.

1965FL Escitalopram, Fluid

Summary of Changes:	Specimen Requirements were changed. Scope of Analysis was changed. Methods/CPT Codes were changed [LC-MS/MS (83789)]

Specimen Requirements:	1 mL Fluid
Transport Temperature:	Refrigerated
Specimen Container:	NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test.
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

1965SP Escitalopram, Serum/Plasma

New Tests and Test Updates

Test Changes

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Scope of Analysis 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: Method (CPT Code)	LC-MS/MS (83789): Citalopram / Escitalopram

Compound Name	Units	Reference Comment
Citalopram / Escitalopram	ng/mL	Steady-state peak plasma levels from patients on regimen of 10 or 30 mg/day of Escitalopram: 21 and 64 ng/mL, respectively, and occur at approximately 4 hours post dose. This test is not Chiral specific. Patients who have taken Racemic Citalopram (Celexa®), as opposed to Escitalopram (Lexapro®), within the past 3 days may have falsely elevated values.

1965TI Escitalopram, Tissue

Summary of Changes:	Scope of Analysis was changed. Methods/CPT Codes were changed [LC-MS/MS (80103, 83789)]
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80103, 83789): Citalopram / Escitalopram

1965U Escitalopram, Urine

New Tests and Test Updates

Test Changes

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

Specimen Requirements: 1 mL Urine
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
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: Method (CPT Code) LC-MS/MS (83789): Citalopram / Escitalopram

5424B Morphine - Free (Unconjugated) Confirmation, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Method (CPT Code) LC-MS/MS (83925): Morphine - Free

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

5424SP Morphine - Free (Unconjugated) Confirmation, Serum/Plasma

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Method (CPT Code) LC-MS/MS (83925): Morphine - Free

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

New Tests and Test Updates

Test Changes

8666B Morphine - Free (Unconjugated), Blood

Summary of Changes: Stability was changed.
Reference Comment was changed.

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83925): Morphine - Free
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

8666SP Morphine - Free (Unconjugated), Serum/Plasma

Summary of Changes: Stability was changed.
Reference Comment was changed.

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83925): Morphine - Free
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

8673B Morphine - Free and Total, Blood

Summary of Changes: Stability was changed.
Reference Comment was changed.

Stability: Room Temperature: 7 day(s)
Refrigerated: 10 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83925): Morphine - Free
Method (CPT Code) LC-MS/MS (83925): Morphine - Total

New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

8673SP Morphine - Free and Total, Serum/Plasma

Summary of Changes: Reference Comment was changed.

Scope of Analysis: LC-MS/MS (83925): Morphine - Free
Method (CPT Code) LC-MS/MS (83925): Morphine - Total

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

5590B Opiates (Low Dose) - Free (Unconjugated) Confirmation, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: LC-MS/MS (83925): Morphine - Free, Hydromorphone - Free, Naltrexone - Free,
Method (CPT Code) Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

5590SP Opiates (Low Dose) - Free (Unconjugated) Confirmation, Serum/Plasma

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

New Tests and Test Updates

Test Changes

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 plastic screw capped vial using approved guidelines.
Rejection Criteria:	Polymer gel separation tube (SST or PST).
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83925): Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

3237B Opiates (Low Dose) - Free (Unconjugated) Screen, Blood

Summary of Changes:	Reference Comment was changed.
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80100): Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

3237SP Opiates (Low Dose) - Free (Unconjugated) Screen, Serum/Plasma

Summary of Changes:	Reference Comment was changed.
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80100): Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free

New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

5645B Opiates - Free (Unconjugated) Confirmation, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

5645SP Opiates - Free (Unconjugated) Confirmation, Serum/Plasma

Summary of Changes: Reference Comment was changed.

Scope of Analysis: GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

3241B Opiates - Free (Unconjugated), Blood (Forensic)

Summary of Changes: Stability was changed.
Reference Comment was changed.

Stability: Room Temperature: 7 day(s)
Refrigerated: 10 day(s)
Frozen (-20 °C): 30 day(s)

Scope of Analysis: ELISA (80101): Opiates
Method (CPT Code) GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free

New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

8660B Opiates - Free (Unconjugated), Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

3241SP Opiates - Free (Unconjugated), Serum/Plasma (Forensic)

Summary of Changes: Stability was changed.
Reference Comment was changed.

Stability: Room Temperature: 7 day(s)
Refrigerated: 10 day(s)
Frozen (-20 °C): 30 day(s)

Scope of Analysis: ELISA (80101): Opiates
Method (CPT Code) GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

8660SP Opiates - Free (Unconjugated), Serum/Plasma

Summary of Changes: Reference Comment was changed.

New Tests and Test Updates

Test Changes

Scope of Analysis: GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

8671B Opiates - Free and Total, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free
GC/MS (83925): Dihydrocodeine / Hydrocodol - Total, Codeine - Total, Morphine - Total, Hydrocodone - Total, Hydromorphone - Total, Oxycodone - Total, Oxymorphone - Total
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine. The ratio of whole blood concentration to serum or plasma concentration is approximately one.

8671SP Opiates - Free and Total, Serum/Plasma

Summary of Changes: Reference Comment was changed.

Scope of Analysis: GC/MS (83925): Dihydrocodeine / Hydrocodol - Free, Codeine - Free, Morphine - Free, Hydrocodone - Free, 6-Monoacetylmorphine - Free, Hydromorphone - Free, Oxycodone - Free, Oxymorphone - Free
GC/MS (83925): Dihydrocodeine / Hydrocodol - Total, Codeine - Total, Morphine - Total, Hydrocodone - Total, Hydromorphone - Total, Oxycodone - Total, Oxymorphone - Total
Method (CPT Code)

Compound Name	Units	Reference Comment
Morphine - Free	ng/mL	Chronic pain patients receiving an average of 90 mg (range 20 - 1460) daily oral morphine had average serum concentrations of 73 ng/mL (range 13 - 710) morphine.

New Tests and Test Updates

Discontinued Tests

Test Code	Test Name	Alternative Test
1869B	Drug Screen, Blood (Forensic)	8075B - Drug Impaired Driving/DRE Toxicology GC/MS Drug Screen Add-On, Blood (Forensic)
1869FL	Drug Screen, Fluid (Forensic)	No Alternate Tests Available
1869SP	Drug Screen, Serum/Plasma (Forensic)	No Alternate Tests Available
1869TI	Drug Screen, Tissue (Forensic)	No Alternate Tests Available
1869U	Drug Screen, Urine (Forensic)	8075U - Drug Impaired Driving/DRE Toxicology GC/MS Drug Screen Add-On, Urine (Forensic)
7541B	Ethanol - Title 17, Blood	7542B - Ethanol - Title 17, Blood
7541U	Ethanol - Title 17, Urine	7542U - Ethanol - Title 17, Urine
8097B	Therapeutic and Abused Drugs Screen, Blood (Forensic)	8062B - Postmortem Toxicology - Expanded w/o Alcohol, Blood
8099B	Therapeutic and Abused Drugs Screen, Blood (Forensic)	8052B - Postmortem Toxicology - Expanded, Blood 1000B - Carboxy-, Met- and Sulf-Hemoglobin, Blood 9142B - Cyanide Screen, Blood
8107B	Therapeutic and Abused Drugs Screen, Blood (Forensic)	8062B - Postmortem Toxicology - Expanded w/o Alcohol, Blood
8097FL	Therapeutic and Abused Drugs Screen, Fluid (Forensic)	No Alternate Tests Available
8107FL	Therapeutic and Abused Drugs Screen, Fluid (Forensic)	No Alternate Tests Available
8097SP	Therapeutic and Abused Drugs Screen, Serum/Plasma (Forensic)	No Alternate Tests Available
8107SP	Therapeutic and Abused Drugs Screen, Serum/Plasma (Forensic)	No Alternate Tests Available
8107TI	Therapeutic and Abused Drugs Screen, Tissue (Forensic)	No Alternate Tests Available
8097U	Therapeutic and Abused Drugs Screen, Urine (Forensic)	8062U - Postmortem Toxicology - Expanded w/o Alcohol, Urine
8107U	Therapeutic and Abused Drugs Screen, Urine (Forensic)	8062U - Postmortem Toxicology - Expanded w/o Alcohol, Urine
8109B	Therapeutic and Abused Drugs with CO/Cyanide Screen, Blood (Forensic)	8052B - Postmortem Toxicology - Expanded, Blood 1000B - Carboxy-, Met- and Sulf-Hemoglobin, Blood 9142B - Cyanide Screen, Blood