Effective Date:

Monday, November 15, 2010

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, November 15, 2010

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
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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
1140R	Chloroquine, RBCs									•
1140B	Chloroquine, Blood (Forensic)		•	•	•	•			•	
1140FL	Chloroquine, Fluid			•						
1140SP	Chloroquine, Serum/Plasma			•	•	•			•	
1140U	Chloroquine, Urine			•	•	•				
54256B	Drug Impaired Driving/DRE Toxicology Hydroxychloroquine Confirmation, Blood (Forensic)			•	•	•			•	
54256U	Drug Impaired Driving/DRE Toxicology Hydroxychloroquine Confirmation, Urine (Forensic)			•	•	•			•	
54141B	Drug Impaired Driving/DRE Toxicology Quinine/Quinidine Differentiation Confirmation, Blood (Forensic)			•	•	•			•	
54141U	Drug Impaired Driving/DRE Toxicology Quinine/Quinidine Differentiation Confirmation, Urine (Forensic)			•	•	•				
52056B	Hydroxychloroquine Confirmation, Blood (Forensic)			•	•	•			•	
53056B	Hydroxychloroquine Confirmation, Blood (Forensic)			•	•	•			•	
52056FL	Hydroxychloroquine Confirmation, Fluid (Forensic)			•	•					
53056FL	Hydroxychloroquine Confirmation, Fluid (Forensic)			•	•					
52056SP	Hydroxychloroquine Confirmation, Serum/Plasma (Forensic)			•	•	•			•	
53056SP	Hydroxychloroquine Confirmation, Serum/Plasma (Forensic)			•	•	•			•	
52056TI	Hydroxychloroquine Confirmation, Tissue (Forensic)			•						
53056TI	Hydroxychloroquine Confirmation, Tissue (Forensic)			•						
52056U	Hydroxychloroquine Confirmation, Urine (Forensic)			•	•	•				
53056U	Hydroxychloroquine Confirmation, Urine (Forensic)			•	•	•				
2362B	Hydroxychloroquine, Blood			•	•	•			•	
2362FL	Hydroxychloroquine, Fluid			•	•					
2362SP	Hydroxychloroquine, Serum/Plasma			•	•	•			•	
2362TI	Hydroxychloroquine, Tissue			•						
2362U	Hydroxychloroquine, Urine			•	•	•				
52067SP	Mefloquine Confirmation, Serum/Plasma (Forensic)			•	•	•			•	

New Tests and Test Updates

Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
53067SP	Mefloquine Confirmation, Serum/Plasma (Forensic)			•	•	•			•	
2595SP	Mefloquine, Serum/Plasma			•	•	•			•	
4070B	Quinidine, Blood									•
4071B	Quinidine, Blood			•	•	•			•	
4070SP	Quinidine, Serum/Plasma									•
4071SP	Quinidine, Serum/Plasma			•	•	•			•	
4070U	Quinidine, Urine									•
4071U	Quinidine, Urine			•	•	•				
4080B	Quinine, Blood			•	•	•			•	
4080SP	Quinine, Serum/Plasma			•	•	•			•	
4080U	Quinine, Urine			•	•	•				
5435B	Quinine/Quinidine Confirmation, Blood (Forensic)			•	•	•			•	
5435SP	Quinine/Quinidine Confirmation, Serum/Plasma (Forensic)			•	•	•			•	
52141B	Quinine/Quinidine Differentiation Confirmation, Blood (Forensic)			•	•	•			•	
53141B	Quinine/Quinidine Differentiation Confirmation, Blood (Forensic)			•	•	•			•	
52141FL	Quinine/Quinidine Differentiation Confirmation, Fluid (Forensic)			•	•					
53141FL	Quinine/Quinidine Differentiation Confirmation, Fluid (Forensic)			•	•					
52141SP	Quinine/Quinidine Differentiation Confirmation, Serum/Plasma (Forensic)			•	•	•			•	
53141SP	Quinine/Quinidine Differentiation Confirmation, Serum/Plasma (Forensic)			•	•	•			•	
52141TI	Quinine/Quinidine Differentiation Confirmation, Tissue (Forensic)			•						
53141TI	Quinine/Quinidine Differentiation Confirmation, Tissue (Forensic)			•						
52141U	Quinine/Quinidine Differentiation Confirmation, Urine (Forensic)			•	•	•				
53141U	Quinine/Quinidine Differentiation Confirmation, Urine (Forensic)			•	•	•				
4075B	Quinine/Quinidine Differentiation, Blood			•	•	•			•	
4075SP	Quinine/Quinidine Differentiation, Serum/Plasma			•	•	•			•	
4075U	Quinine/Quinidine Differentiation, Urine			•	•	•				
9254B	Quinine/Quinidine Screen, Blood (Forensic)			•	•	•			•	

Effective Date:

Monday, November 15, 2010

New Tests and Test Updates

Test Code	Test Name	New Test	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
9254SP	Quinine/Quinidine Screen, Serum/Plasma (Forensic)			•	•	•			•	

New Tests and Test Updates

Test Changes

1140B Chloroquine, Blood (Forensic)

Summary of Changes: Test Name was 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: 5 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: Method (CPT Code) LC-MS/MS (83789): Chloroquine

Compound Name	Units	Reference Comment
Chloroquine	ng/mL	Eleven adults given an infused 300 mg dose developed peak plasma chloroquine concentrations averaging 840 ng/mL. Ten pediatric malaria patients given a 10 mg/kg initial dose with an additional 5 mg/kg every 12 hours had peak plasma concentrations of 250 +/- 30 ng/mL at approximately 2 hours. The blood to plasma ratio of chloroquine ranges from 3 to 10 due to extensive platelet binding.

1140FL Chloroquine, Fluid

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

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

1140SP Chloroquine, Serum/Plasma

Summary of Changes: 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:	2 mL Serum or Plasma
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
Light Protection:	Not Required
Special Handling:	Serum is not recommended for therapeutic monitoring due to variable release of chloroquine during clotting. 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:	Glass container. 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): Chloroquine

Compound Name	Units	Reference Comment
Chloroquine	ng/mL	Eleven adults given an infused 300 mg dose developed peak plasma chloroquine concentrations averaging 840 ng/mL. Ten pediatric malaria patients given a 10 mg/kg initial dose with an additional 5 mg/kg every 12 hours had peak plasma concentrations of 250 +/- 30 ng/mL at approximately 2 hours. Serum concentrations are variable due to release of chloroquine during clotting and are typically higher than in plasma.

1140U Chloroquine, Urine

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

Specimen Requirements:	2 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): Chloroquine

New Tests and Test Updates

Test Changes

54256B Drug Impaired Driving/DRE Toxicology Hydroxychloroquine Confirmation, Blood (Forensic)

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: Method (CPT Code): LC-MS/MS (83789): Hydroxychloroquine

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	Peak plasma concentrations of 410 +/- 130 ng/mL were achieved 2.4 hours after a single oral dose of 400 mg hydroxychloroquine (n = 6). Two cases of hydroxychloroquine overdose (20 g each) were successfully treated throughout cardiovascular collapse and had serum concentrations of 14000 and 26000 ng/mL. The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.

54256U Drug Impaired Driving/DRE Toxicology Hydroxychloroquine Confirmation, Urine (Forensic)

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

New Tests and Test Updates

Test Changes

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83789): Hydroxychloroquine
Method (CPT Code)

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	No reference data available.

54141B Drug Impaired Driving/DRE Toxicology Quinine/Quinidine Differentiation Confirmation, 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 (80194)]

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 (80194): Quinidine, Quinine
Method (CPT Code)

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL. The blood/plasma ratio is not known for quinidine, but concentrations in red blood cells are usually lower than plasma.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration. The blood/plasma ratio is not known for quinine, but concentrations in red blood cells are usually lower than plasma.

54141U Drug Impaired Driving/DRE Toxicology Quinine/Quinidine Differentiation Confirmation, Urine

New Tests and Test Updates

Test Changes

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Methods/CPT Codes were changed [LC-MS/MS (80194)]

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 (80194): Quinidine, Quinine

52056B Hydroxychloroquine Confirmation, Blood (Forensic)

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: Method (CPT Code)	LC-MS/MS (83789): Hydroxychloroquine

New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	Peak plasma concentrations of 410 +/- 130 ng/mL were achieved 2.4 hours after a single oral dose of 400 mg hydroxychloroquine (n = 6). Two cases of hydroxychloroquine overdose (20 g each) were successfully treated throughout cardiovascular collapse and had serum concentrations of 14000 and 26000 ng/mL. The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.

53056B Hydroxychloroquine Confirmation, Blood (Forensic)

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: Method (CPT Code) LC-MS/MS (83789): Hydroxychloroquine

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	Peak plasma concentrations of 410 +/- 130 ng/mL were achieved 2.4 hours after a single oral dose of 400 mg hydroxychloroquine (n = 6). Two cases of hydroxychloroquine overdose (20 g each) were successfully treated throughout cardiovascular collapse and had serum concentrations of 14000 and 26000 ng/mL. The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.

52056FL Hydroxychloroquine 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): Hydroxychloroquine

53056FL Hydroxychloroquine 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): Hydroxychloroquine

52056SP Hydroxychloroquine Confirmation, Serum/Plasma (Forensic)

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).

New Tests and Test Updates

Test Changes

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83789): Hydroxychloroquine
Method (CPT Code)

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	Peak plasma concentrations of 410 +/- 130 ng/mL were achieved 2.4 hours after a single oral dose of 400 mg hydroxychloroquine (n = 6). Two cases of hydroxychloroquine overdose (20 g each) were successfully treated throughout cardiovascular collapse and had serum concentrations of 14000 and 26000 ng/mL.

53056SP Hydroxychloroquine Confirmation, Serum/Plasma (Forensic)

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): Hydroxychloroquine
Method (CPT Code)

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	Peak plasma concentrations of 410 +/- 130 ng/mL were achieved 2.4 hours after a single oral dose of 400 mg hydroxychloroquine (n = 6). Two cases of hydroxychloroquine overdose (20 g each) were successfully treated throughout cardiovascular collapse and had serum concentrations of 14000 and 26000 ng/mL.

New Tests and Test Updates

Test Changes

52056TI Hydroxychloroquine Confirmation, Tissue (Forensic)

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

53056TI Hydroxychloroquine Confirmation, Tissue (Forensic)

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

52056U Hydroxychloroquine Confirmation, Urine (Forensic)

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

53056U Hydroxychloroquine Confirmation, Urine (Forensic)

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

New Tests and Test Updates

Test Changes

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83789): Hydroxychloroquine
Method (CPT Code)

2362B Hydroxychloroquine, 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): Hydroxychloroquine
Method (CPT Code)

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	Peak plasma concentrations of 410 +/- 130 ng/mL were achieved 2.4 hours after a single oral dose of 400 mg hydroxychloroquine (n = 6). Two cases of hydroxychloroquine overdose (20 g each) were successfully treated throughout cardiovascular collapse and had serum concentrations of 14000 and 26000 ng/mL. The ratio of whole blood concentration to serum or plasma concentration is unknown for this analyte.

2362FL Hydroxychloroquine, Fluid

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:	3 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): Hydroxychloroquine

2362SP Hydroxychloroquine, 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: Method (CPT Code)	LC-MS/MS (83789): Hydroxychloroquine

Compound Name	Units	Reference Comment
Hydroxychloroquine	ng/mL	Peak plasma concentrations of 410 +/- 130 ng/mL were achieved 2.4 hours after a single oral dose of 400 mg hydroxychloroquine (n = 6). Two cases of hydroxychloroquine overdose (20 g each) were successfully treated throughout cardiovascular collapse and had serum concentrations of 14000 and 26000 ng/mL.

2362TI Hydroxychloroquine, Tissue

New Tests and Test Updates

Test Changes

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

2362U Hydroxychloroquine, Urine

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

52067SP Mefloquine Confirmation, Serum/Plasma (Forensic)

Summary of Changes:	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:	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).
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): Mefloquine
Method (CPT Code)

Compound Name	Units	Reference Comment
Mefloquine	ng/mL	Healthy volunteers given a single oral dose of 1500 mg mefloquine had peak plasma concentrations of 1400 ng/mL. Patients taking 1500 mg weekly mefloquine for 83 days had an average peak blood concentration of 1200 ng/mL.

53067SP Mefloquine Confirmation, Serum/Plasma (Forensic)

Summary of Changes:
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: 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).
Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (83789): Mefloquine
Method (CPT Code)

Compound Name	Units	Reference Comment
Mefloquine	ng/mL	Healthy volunteers given a single oral dose of 1500 mg mefloquine had peak plasma concentrations of 1400 ng/mL. Patients taking 1500 mg weekly mefloquine for 83 days had an average peak blood concentration of 1200 ng/mL.

2595SP Mefloquine, Serum/Plasma

Summary of Changes:
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:	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).
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): Mefloquine

Compound Name	Units	Reference Comment
Mefloquine	ng/mL	Healthy volunteers given a single oral dose of 1500 mg mefloquine had peak plasma concentrations of 1400 ng/mL. Patients taking 1500 mg weekly mefloquine for 83 days had an average peak blood concentration of 1200 ng/mL.

4071B Quinidine, 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 (80194)]

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: Method (CPT Code)	LC-MS/MS (80194): Quinidine

New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL. The blood/plasma ratio is not known for quinidine, but concentrations in red blood cells are usually lower than plasma.

4071SP Quinidine, 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 (80194)]

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 (80194): Quinidine

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL.

4071U Quinidine, Urine

Summary of Changes: Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Stability was changed.
Methods/CPT Codes were changed [LC-MS/MS (80194)]

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 (80194): Quinidine

4080B Quinine, 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 (84228)]

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: Method (CPT Code)	LC-MS/MS (84228): Quinine

Compound Name	Units	Reference Comment
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration. The blood/plasma ratio is not known for quinine, but concentrations in red blood cells are usually lower than plasma.

4080SP Quinine, Serum/Plasma

New Tests and Test Updates

Test Changes

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 (84228)]

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 (84228): Quinine

Compound Name	Units	Reference Comment
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration.

4080U Quinine, Urine

Summary of Changes: Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Stability was changed.
Methods/CPT Codes were changed [LC-MS/MS (84228)]

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 (84228): Quinine

New Tests and Test Updates

Test Changes

5435B Quinine/Quinidine Confirmation, Blood (Forensic)

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 (80104)]

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: Method (CPT Code): LC-MS/MS (80104): Quinine, Quinidine

Compound Name	Units	Reference Comment
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration. The blood/plasma ratio is not known for quinine, but concentrations in red blood cells are usually lower than plasma.
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL. The blood/plasma ratio is not known for quinidine, but concentrations in red blood cells are usually lower than plasma.

5435SP Quinine/Quinidine Confirmation, Serum/Plasma (Forensic)

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 (80104)]

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: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80104): Quinine, Quinidine

Compound Name	Units	Reference Comment
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration.
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL.

52141B Quinine/Quinidine Differentiation Confirmation, Blood (Forensic)

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 (80194)]

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: Method (CPT Code)	LC-MS/MS (80194): Quinidine, Quinine

New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL. The blood/plasma ratio is not known for quinidine, but concentrations in red blood cells are usually lower than plasma.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration. The blood/plasma ratio is not known for quinine, but concentrations in red blood cells are usually lower than plasma.

53141B Quinine/Quinidine Differentiation Confirmation, Blood (Forensic)

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 (80194)]

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: Method (CPT Code): LC-MS/MS (80194): Quinidine, Quinine

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL. The blood/plasma ratio is not known for quinidine, but concentrations in red blood cells are usually lower than plasma.

New Tests and Test Updates

Test Changes

Compound Name	Units	Reference Comment
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration. The blood/plasma ratio is not known for quinine, but concentrations in red blood cells are usually lower than plasma.

52141FL Quinine/Quinidine Differentiation Confirmation, Fluid (Forensic)

Summary of Changes: Specimen Requirements were changed.
Methods/CPT Codes were changed [LC-MS/MS (80194)]

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 (80194): Quinidine, Quinine

53141FL Quinine/Quinidine Differentiation Confirmation, Fluid (Forensic)

Summary of Changes: Specimen Requirements were changed.
Methods/CPT Codes were changed [LC-MS/MS (80194)]

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 (80194): Quinidine, Quinine

52141SP Quinine/Quinidine Differentiation Confirmation, Serum/Plasma (Forensic)

Test Changes

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 (80194)]

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 (80194): Quinidine, Quinine
Method (CPT Code)

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration.

53141SP Quinine/Quinidine Differentiation Confirmation, Serum/Plasma (Forensic)

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 (80194)]

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: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80194): Quinidine, Quinine

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration.

52141TI Quinine/Quinidine Differentiation Confirmation, Tissue (Forensic)

Summary of Changes:	Methods/CPT Codes were changed [LC-MS/MS (80103, 80194)]
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80103, 80194): Quinidine, Quinine

53141TI Quinine/Quinidine Differentiation Confirmation, Tissue (Forensic)

Summary of Changes:	Methods/CPT Codes were changed [LC-MS/MS (80103, 80194)]
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80103, 80194): Quinidine, Quinine

52141U Quinine/Quinidine Differentiation Confirmation, Urine (Forensic)

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Methods/CPT Codes were changed [LC-MS/MS (80194)]

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 (80194): Quinidine, Quinine

53141U Quinine/Quinidine Differentiation Confirmation, Urine (Forensic)

Summary of Changes:	Specimen Requirements were changed. Specimen Requirements (Specimen Container) were changed. Stability was changed. Methods/CPT Codes were changed [LC-MS/MS (80194)]

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 (80194): Quinidine, Quinine

4075B Quinine/Quinidine Differentiation, 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 (80194)]

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: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80194): Quinidine, Quinine

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL. The blood/plasma ratio is not known for quinidine, but concentrations in red blood cells are usually lower than plasma.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration. The blood/plasma ratio is not known for quinine, but concentrations in red blood cells are usually lower than plasma.

4075SP Quinine/Quinidine Differentiation, 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 (80194)]

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).

New Tests and Test Updates

Test Changes

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (80194): Quinidine, Quinine
Method (CPT Code)

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration.

4075U Quinine/Quinidine Differentiation, Urine

Summary of Changes: Specimen Requirements were changed.
Specimen Requirements (Specimen Container) were changed.
Stability was changed.
Methods/CPT Codes were changed [LC-MS/MS (80194)]

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: LC-MS/MS (80194): Quinidine, Quinine
Method (CPT Code)

9254B Quinine/Quinidine Screen, Blood (Forensic)

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 (80101)]

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: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 30 day(s)
Scope of Analysis: Method (CPT Code)	LC-MS/MS (80101): Quinidine, Quinine

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL. The blood/plasma ratio is not known for quinidine, but concentrations in red blood cells are usually lower than plasma.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration. The blood/plasma ratio is not known for quinine, but concentrations in red blood cells are usually lower than plasma.

9254SP Quinine/Quinidine Screen, Serum/Plasma (Forensic)

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 (80101)]

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).

New Tests and Test Updates

Test Changes

Stability: Room Temperature: 30 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS (80101): Quinidine, Quinine
Method (CPT Code)

Compound Name	Units	Reference Comment
Quinidine	ng/mL	For the treatment of arrhythmia, effective plasma concentrations typically range between 2000 and 5000 ng/mL.
Quinine	ng/mL	A single oral 648 mg antispasmodic dose produces average peak plasma concentrations of 2800 ng/mL 2 hr after administration.

New Tests and Test Updates

Discontinued Tests

Test Code	Test Name	Alternative Test
1140R	Chloroquine, RBCs	No Alternate Tests Available
4070B	Quinidine, Blood	4071B - Quinidine, Blood
4070SP	Quinidine, Serum/Plasma	4071SP - Quinidine, Serum/Plasma
4070U	Quinidine, Urine	4071U - Quinidine, Urine