Effective Date:

Monday, May 05, 2014

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, May 05, 2014

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
3701 Welsh Road
Willow Grove, PA 19090
www.NMSLabs.com

Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
7626SP	11-Deoxycortisol, Serum/Plasma			•	•				
7620SP	17-Hydroxyprogesterone, Serum/Plasma				•				
0148B	Acrylonitrile Exposure Profile, Blood		•	•				•	
7622SP	Androstenedione, Serum/Plasma				•				
2302U	Aromatic Solvent Metabolites Panel 1, Urine							•	
0457U	Aromatic Solvents Panel, Urine							•	
0474FL	Asenapine, Fluid								•
0474TI	Asenapine, Tissue								•
0474U	Asenapine, Urine								•
9123FL	Buspirone Screen, Fluid								•
9123TI	Buspirone Screen, Tissue								•
1042SP	Cesium, Serum/Plasma				•			•	
7644SP	Congenital Adrenal Hyperplasia (CAH) Panel, Serum/Plasma				•				
7627SP	Corticosterone, Serum/Plasma				•				
7625SP	Cortisol, Serum/Plasma				•				
9144SP	Cyclobenzaprine Screen, Serum/Plasma								•
7623SP	DHEA (Dehydroepiandrosterone), Serum/Plasma				•				
7624SP	DHEAS (Dehydroepiandrosterone Sulfate), Serum/Plasma				•				
7651SP	Dihydrotestosterone (DHT) Panel, Serum/Plasma				•				
1640FL	Diltiazem, Fluid								•
1919FL	Electrolytes and Glucose Panel (Vitreous), Fluid (Forensic)			•				•	
7634SP	Estradiol (E2), Serum/Plasma				•				
7635SP	Estriol (E3), Serum/Plasma				•				
7640SP	Estrogens Fractionated, Serum/Plasma				•				
7633SP	Estrone (E1), Serum/Plasma				•				
9166B	Ethambutol Screen, Blood								•
9166SP	Ethambutol Screen, Serum/Plasma								•
9166U	Ethambutol Screen, Urine								•
1959B	Ethambutol, Blood								•
1959U	Ethambutol, Urine								•
9168U	Ethinamate Screen, Urine								•

Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
1980U	Ethinamate, Urine								•
2071B	Felodipine, Blood			•					
2071SP	Felodipine, Serum/Plasma			•					
2306U	Hippuric Acid and Methylhippuric Acid, Urine							•	
2300U	Hippuric Acid, Urine							•	
2416U	Inhalants Metabolites Panel, Urine							•	
2409U	Inhalants Panel, Urine (CSA)							•	
2426U	Inhalants and Metabolites Panel, Urine							•	
54259B	Lamotrigine Confirmation (Drug Impaired Driving/DRE Toxicology), Blood (Forensic)			•				•	
54259SP	Lamotrigine Confirmation (Drug Impaired Driving/DRE Toxicology), Serum/Plasma (Forensic)			•	•			•	
54259U	Lamotrigine Confirmation (Drug Impaired Driving/DRE Toxicology), Urine (Forensic)			•				•	
52059B	Lamotrigine Confirmation, Blood (Forensic)			•				•	
53059B	Lamotrigine Confirmation, Blood (Forensic)			•				•	
52059FL	Lamotrigine Confirmation, Fluid (Forensic)			•				•	
53059FL	Lamotrigine Confirmation, Fluid (Forensic)			•				•	
52059SP	Lamotrigine Confirmation, Serum/Plasma (Forensic)			•	•			•	
53059SP	Lamotrigine Confirmation, Serum/Plasma (Forensic)			•	•			•	
52059TI	Lamotrigine Confirmation, Tissue (Forensic)			•				•	
53059TI	Lamotrigine Confirmation, Tissue (Forensic)			•				•	
52059U	Lamotrigine Confirmation, Urine (Forensic)			•				•	
53059U	Lamotrigine Confirmation, Urine (Forensic)			•				•	
2484B	Lamotrigine, Blood			•				•	
2484SP	Lamotrigine, Serum/Plasma			•	•			•	
2484U	Lamotrigine, Urine			•				•	
1032B	Methcathinone (CAT), Blood								•
1032SP	Methcathinone (CAT), Serum/Plasma								•
1032U	Methcathinone (CAT), Urine								•

Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
9210U	Methyprylon Screen, Urine								•
3040U	Methyprylon, Urine								•
4017U	Prilocaine, Urine								•
7621SP	Progesterone, Serum/Plasma				•				
8686B	Promazine, Blood								•
8686SP	Promazine, Serum/Plasma								•
8686U	Promazine, Urine								•
4110B	Rifampin, Blood								•
7650SP	Sex Hormone Binding Globulin (SHBG), Serum/Plasma				•				
0872U	Solvent Profile, Urine							•	
7671SP	Steroids Panel, Serum/Plasma (CSA)				•				
5968U	Synthetic Cannabinoid Metabolites Confirmation 2 (Qualitative), Urine	•							
7660SP	T3 (Triiodothyronine), Free, Serum/Plasma				•				
7661SP	T4 (Thyroxine), Free, Serum/Plasma				•				
9274B	Theophylline Screen, Blood								•
9274U	Theophylline Screen, Urine								•
7662SP	Thyroid Hormones (T3 & T4), Free, Fractionated, Serum/Plasma				•				
7663SP	Thyroid Panel 1 - Total, Serum/Plasma		•	•					
4479B	Tiagabine, Blood			•	•				
4479SP	Tiagabine, Serum/Plasma				•				
4486B	Titanium, Blood							•	
4486SP	Titanium, Serum/Plasma							•	
4486U	Titanium, Urine							•	

Test Updates

Test Changes

7626SP 11-Deoxycortisol, Serum/Plasma

Summary of Changes:	Specimen Requirements (Specimen Container) were changed. Stability was changed.
Specimen Requirements:	0.5 mL Serum or Plasma
Transport Temperature:	Refrigerated
Specimen Container:	Green top tube (Sodium Heparin), Red top tube (no additive)
Light Protection:	Not Required
Special Handling:	Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.
Rejection Criteria:	None
Stability:	Room Temperature: Undetermined Refrigerated: 7 day(s) Frozen (-20 °C): 6 month(s)

7620SP 17-Hydroxyprogesterone, Serum/Plasma

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

0148B Acrylonitrile Exposure Profile, Blood

Summary of Changes:	Specimen Requirements (Specimen Container) were changed. Specimen Requirements (Special Handling) were changed. Reference Comment was changed. Methods/CPT Codes were changed [LC-MS/MS (83789)]
Specimen Requirements:	3 mL Blood
Transport Temperature:	Refrigerated
Specimen Container:	Gray top tube (Sodium Fluoride / Potassium Oxalate)
Light Protection:	Not Required
Special Handling:	Collect sample using alcohol free skin preparation. Studies have shown that cyanide has variable instability in biological specimens and is particularly unstable in some postmortem specimens. The loss of cyanide can be minimized by shipping the sample to the laboratory for analysis as soon as possible, preferably using refrigerated or frozen transportation and preservation using sodium fluoride / potassium oxalate (grey-top tube). Samples should not be refrozen if previously thawed. The potential for increases in cyanide concentrations, although rare, have also been demonstrated and may be due to microbial action. Preservation with sodium fluoride may reduce this possibility.
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	LC-MS/MS (83789): Cyanide Headspace GC (84600): Acetaldehyde, Acrylonitrile, Acetone

Test Updates

Test Changes

Compound Name	Units	Reference Comment
Cyanide	mcg/mL	Normal: Up to 0.05 mcg/mL Potentially toxic: 0.50 mcg/mL and greater Potentially lethal: 2.0 mcg/mL and greater

7622SP Androstenedione, Serum/Plasma

Summary of Changes: Stability was changed.

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

2302U Aromatic Solvent Metabolites Panel 1, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis:
Method (CPT Code)
Colorimetry (82570): Creatinine
IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected), Mandelic Acid, Mandelic Acid (Creatinine corrected), Phenylglyoxylic Acid, Phenylglyoxylic Acid (Creatinine corrected), Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.
Hippuric Acid (Creatinine corrected)	g/g Creat	Normal for unexposed populations up to 1.5 g Hippuric Acid/g creatinine.

0457U Aromatic Solvents Panel, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis:
Method (CPT Code)
Colorimetry (82570): Creatinine
GC (84600): o-Cresol, o-Cresol (Creatinine corrected), p-and/or m-Cresol, Phenol - Total, Phenol - Total (Creatinine corrected), Ethylphenol, Ethylphenol (Creatinine corrected)
IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected), Mandelic Acid, Mandelic Acid (Creatinine corrected), Phenylglyoxylic Acid, Phenylglyoxylic Acid (Creatinine corrected), Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected)
LC-MS/MS (83789): S-Phenylmercapturic Acid, S-Phenylmercapturic Acid (Creatinine corrected), t,t-Muconic Acid, t,t-Muconic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.
Hippuric Acid (Creatinine corrected)	g/g Creat	Normal for unexposed populations up to 1.5 g Hippuric Acid/g creatinine.

Test Updates

Test Changes

1042SP Cesium, 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: ICP/MS (83018): Cesium
Method (CPT Code)

Compound Name	Units	Reference Comment
Cesium	mcg/L	Normally: Less than 3 mcg/L.

7644SP Congenital Adrenal Hyperplasia (CAH) Panel, Serum/Plasma

Summary of Changes: Stability was changed.

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

7627SP Corticosterone, Serum/Plasma

Summary of Changes: Stability was changed.

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

7625SP Cortisol, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: Undetermined
Refrigerated: 7 day(s)
Frozen (-20 °C): 2 month(s)

7623SP DHEA (Dehydroepiandrosterone), Serum/Plasma

Summary of Changes: Stability was changed.

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

7624SP DHEAS (Dehydroepiandrosterone Sulfate), Serum/Plasma

Summary of Changes: Stability was changed.

Test Updates

Test Changes

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

7651SP Dihydrotestosterone (DHT) Panel, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: Undetermined
Refrigerated: 7 day(s)
Frozen (-20 °C): 14 day(s)

1919FL Electrolytes and Glucose Panel (Vitreous), Fluid (Forensic)

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

Specimen Requirements: 2 mL Fluid
Transport Temperature: Refrigerated
Specimen Container: Red top tube (no additive) OR Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: Quantitative results for sodium and for potassium in vitreous specimens will be affected if performed on Gray Top Tubes since these collection tubes contain sodium fluoride and potassium oxalate.
Rejection Criteria: None
Scope of Analysis: Colorimetry (82570): Creatinine (Vitreous Fluid)
Method (CPT Code) Chemistry Analyzer (84302,83520,82438,84520,82945): Sodium (Vitreous Fluid), Potassium (Vitreous Fluid), Chloride (Vitreous Fluid), Glucose (Vitreous Fluid), Urea Nitrogen (Vitreous Fluid)

Compound Name	Units	Reference Comment
Sodium (Vitreous Fluid)	mmol/L	Normal: 135 - 150 mmol/L Quantitative results for sodium will be affected if performed on gray top tubes since these collection tubes contain sodium fluoride.
Potassium (Vitreous Fluid)	mmol/L	Normal: <15 mmol/L Quantitative results for sodium will be affected if performed on gray top tubes since these collection tubes contain potassium oxalate.

7634SP Estradiol (E2), Serum/Plasma

Summary of Changes: Stability was changed.

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

Test Updates

Test Changes

7635SP Estriol (E3), Serum/Plasma

Summary of Changes: Stability was changed.

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

7640SP Estrogens Fractionated, Serum/Plasma

Summary of Changes: Stability was changed.

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

7633SP Estrone (E1), Serum/Plasma

Summary of Changes: Stability was changed.

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

2071B Felodipine, Blood

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

Specimen Requirements: 8 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Lavender top tube (EDTA)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None

2071SP Felodipine, Serum/Plasma

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

Test Updates

Test Changes

Specimen Requirements:	8 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).

2306U Hippuric Acid and Methylhippuric Acid, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine
Method (CPT Code) IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected), Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.
Hippuric Acid (Creatinine corrected)	g/g Creat	Normal for unexposed populations up to 1.5 g Hippuric Acid/g creatinine.

2300U Hippuric Acid, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Colorimetry (82570): Creatinine
Method (CPT Code) IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.
Hippuric Acid (Creatinine corrected)	g/g Creat	Normal for unexposed populations up to 1.5 g Hippuric Acid/g creatinine.

2416U Inhalants Metabolites Panel, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: GC (84600): Phenol - Total, o-Cresol
Method (CPT Code) IC (83921): Hippuric Acid, Methylhippuric Acid, Mandelic Acid, Phenylglyoxylic Acid
GC (83921): Trichloroacetic Acid

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.

Test Updates

Test Changes

2409U Inhalants Panel, Urine (CSA)

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Method (CPT Code): Headspace GC (84600): n-Butanol, Isobutanol, Sec-Butanol, Tert-Butanol, n-Amyl Alcohol, Iso-Amyl Alcohol, Benzene, Ethylbenzene, Styrene, Toluene, Xylenes (o,m,p), n-Heptane, n-Hexane, Methylpentanes (2- and 3- Isomers), Pentane, Ethanol, Isopropanol, n-Propanol, Methanol, Acetaldehyde, Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl n-Butyl Ketone, Ethyl Acetate, Diethyl Ether, Methyl Acrylate, Methyl Tertiary Butyl Ether
IC (82492): Nitrite, Nitrate
GC (84600): Phenol - Total, o-Cresol
IC (83921): Hippuric Acid, Methylhippuric Acid, Mandelic Acid

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.

2426U Inhalants and Metabolites Panel, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: Method (CPT Code): GC (84600): Phenol - Total, o-Cresol
Headspace GC (84600): Acetone, Ethanol, Isopropanol, Methanol, Methyl Ethyl Ketone, Methyl Isobutyl Ketone
IC (83921): Hippuric Acid, Methylhippuric Acid, Mandelic Acid, Phenylglyoxylic Acid
GC (83921): Trichloroacetic Acid

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.

54259B Lamotrigine Confirmation (Drug Impaired Driving/DRE Toxicology), Blood (Forensic)

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

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Lavender top tube (EDTA)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: Received Room Temperature.
Scope of Analysis: Method (CPT Code): HPLC (80175): Lamotrigine

Test Updates

Test Changes

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. The blood/plasma ratio for lamotrigine is not known. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

54259SP Lamotrigine Confirmation (Drug Impaired Driving/DRE Toxicology), 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.

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:	Received Room Temperature. Polymer gel separation tube (SST or PST).
Stability:	Room Temperature: 6 day(s) Refrigerated: 14 day(s) Frozen (-20 °C): 10 month(s)
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

54259U Lamotrigine Confirmation (Drug Impaired Driving/DRE Toxicology), Urine (Forensic)

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

Test Updates

Test Changes

Specimen Requirements:	2 mL Urine
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	Received Room Temperature.
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	Lamotrigine is extensively metabolized with an average of 70% of a single dose eliminated in urine over 6 days with about 8% present as parent drug. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

52059B Lamotrigine Confirmation, Blood (Forensic)

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

Specimen Requirements:	2 mL Blood
Transport Temperature:	Refrigerated
Specimen Container:	Lavender top tube (EDTA)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	Received Room Temperature.
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. The blood/plasma ratio for lamotrigine is not known. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

53059B Lamotrigine Confirmation, Blood (Forensic)

Test Updates

Test Changes

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

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Lavender top tube (EDTA)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: Received Room Temperature.
Scope of Analysis: HPLC (80175): Lamotrigine
Method (CPT Code)

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. The blood/plasma ratio for lamotrigine is not known. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

52059FL Lamotrigine Confirmation, Fluid (Forensic)

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

Specimen Requirements: 5 mL Fluid
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None
Scope of Analysis: HPLC (80175): Lamotrigine
Method (CPT Code)

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

53059FL Lamotrigine Confirmation, Fluid (Forensic)

Test Changes

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

Specimen Requirements:	5 mL Fluid
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

52059SP Lamotrigine 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.

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:	Received Room Temperature. Polymer gel separation tube (SST or PST).
Stability:	Room Temperature: 6 day(s) Refrigerated: 14 day(s) Frozen (-20 °C): 10 month(s)
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Test Updates

Test Changes

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

53059SP Lamotrigine 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.

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: Received Room Temperature. Polymer gel separation tube (SST or PST).
Stability: Room Temperature: 6 day(s)
Refrigerated: 14 day(s)
Frozen (-20 °C): 10 month(s)
Scope of Analysis: Method (CPT Code) HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

52059TI Lamotrigine Confirmation, Tissue (Forensic)

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

Test Updates

Test Changes

Specimen Requirements:	10 g Tissue
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	HPLC (80103, 80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/g	10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

53059TI Lamotrigine Confirmation, Tissue (Forensic)

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

Specimen Requirements:	10 g Tissue
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	None
Scope of Analysis: Method (CPT Code)	HPLC (80103, 80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/g	10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

52059U Lamotrigine Confirmation, Urine (Forensic)

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

Test Updates

Test Changes

Specimen Requirements:	2 mL Urine
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	Received Room Temperature.
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	Lamotrigine is extensively metabolized with an average of 70% of a single dose eliminated in urine over 6 days with about 8% present as parent drug. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

53059U Lamotrigine Confirmation, Urine (Forensic)

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

Specimen Requirements:	2 mL Urine
Transport Temperature:	Refrigerated
Specimen Container:	Plastic container (preservative-free)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	Received Room Temperature.
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	Lamotrigine is extensively metabolized with an average of 70% of a single dose eliminated in urine over 6 days with about 8% present as parent drug. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

2484B Lamotrigine, Blood

Test Updates

Test Changes

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

Specimen Requirements:	2 mL Blood
Transport Temperature:	Refrigerated
Specimen Container:	Lavender top tube (EDTA)
Light Protection:	Not Required
Special Handling:	None
Rejection Criteria:	Received Room Temperature.
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. The blood/plasma ratio for lamotrigine is not known. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

2484SP Lamotrigine, Serum/Plasma

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

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:	Received Room Temperature. Polymer gel separation tube (SST or PST).
Stability:	Room Temperature: 6 day(s) Refrigerated: 14 day(s) Frozen (-20 °C): 10 month(s)
Scope of Analysis: Method (CPT Code)	HPLC (80175): Lamotrigine

Test Updates

Test Changes

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	A therapeutic range of 3-14 mcg/mL has been proposed, but pharmacokinetics can vary with the administration of other antiepileptic drugs. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

2484U Lamotrigine, Urine

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

Specimen Requirements: 2 mL Urine
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: Received Room Temperature.
Scope of Analysis: HPLC (80175): Lamotrigine
Method (CPT Code)

Compound Name	Units	Reference Comment
Lamotrigine	mcg/mL	Lamotrigine is extensively metabolized with an average of 70% of a single dose eliminated in urine over 6 days with about 8% present as parent drug. 10-hydroxycarbazepine interferes with lamotrigine in this analysis. The presence of 10-hydroxycarbazepine will adversely affect the quantitation of lamotrigine.

7621SP Progesterone, Serum/Plasma

Summary of Changes: Stability was changed.

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

7650SP Sex Hormone Binding Globulin (SHBG), Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: Undetermined
Refrigerated: 30 day(s)
Frozen (-20 °C): 2 month(s)

Test Updates

Test Changes

0872U Solvent Profile, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: GC (83921): Trichloroacetic Acid
Method (CPT Code) Colorimetry (82570): Creatinine
GC (82441): Trichloroethanol - Total
GC (84600): o-Cresol, p-and/or m-Cresol, Phenol - Total, Phenol - Total (Creatinine corrected)
IC (83921): Hippuric Acid, Hippuric Acid (Creatinine corrected), Mandelic Acid, Mandelic Acid (Creatinine corrected), Phenylglyoxylic Acid, Phenylglyoxylic Acid (Creatinine corrected), Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected)
LC-MS/MS (83789): S-Phenylmercapturic Acid, S-Phenylmercapturic Acid (Creatinine corrected), t,t-Muconic Acid, t,t-Muconic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
Hippuric Acid	g/L	Normal: Up to 1.6 g Hippuric Acid/L urine.
Hippuric Acid (Creatinine corrected)	g/g Creat	Normal for unexposed populations up to 1.5 g Hippuric Acid/g creatinine.

7671SP Steroids Panel, Serum/Plasma (CSA)

Summary of Changes: Stability was changed.

Stability: Room Temperature: Undetermined
Refrigerated: 7 day(s)
Frozen (-20 °C): 14 day(s)

5968U Synthetic Cannabinoid Metabolites Confirmation 2 (Qualitative), Urine

Summary of Changes: Test Name was changed.

7660SP T3 (Triiodothyronine), Free, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: 1 day(s)
Refrigerated: 7 day(s)
Frozen (-20 °C): 30 day(s)

7661SP T4 (Thyroxine), Free, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: 1 day(s)
Refrigerated: 7 day(s)
Frozen (-20 °C): 30 day(s)

Test Updates

Test Changes

7662SP Thyroid Hormones (T3 & T4), Free, Fractionated, Serum/Plasma

Summary of Changes:	Stability was changed.
Stability:	Room Temperature: 1 day(s) Refrigerated: 7 day(s) Frozen (-20 °C): 30 day(s)

7663SP Thyroid Panel 1 - Total, Serum/Plasma

Summary of Changes:	Specimen Requirements were changed. Methods/CPT Codes were changed [LC-MS/MS (83789), LC-MS/MS (83789)]
Specimen Requirements:	2 mL Serum or Plasma
Transport Temperature:	Refrigerated
Specimen Container:	Green top tube (Sodium Heparin), Red top tube (no additive)
Light Protection:	Not Required
Special Handling:	Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.
Rejection Criteria:	Received Room Temperature.
Scope of Analysis:	LC-MS/MS (83789): T1-AM - Total, T2 - Total
Method (CPT Code)	LC-MS/MS (83789): T3 - Total, rT3 - Total, T4 - Total

4479B Tiagabine, Blood

Summary of Changes:	Specimen Requirements (Specimen Container) were changed. Stability was 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
Stability:	Room Temperature: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 7 month(s)

4479SP Tiagabine, Serum/Plasma

Summary of Changes:	Stability was changed.
Stability:	Room Temperature: 30 day(s) Refrigerated: 30 day(s) Frozen (-20 °C): 48 month(s)

Test Updates

Test Changes

4486B Titanium, Blood

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Titanium
Method (CPT Code)

Compound Name	Units	Reference Comment
Titanium	mcg/L	The normal value for titanium is generally less than 5 mcg/L. In patients with a titanium-based implant/prosthesis, a blood concentration greater than 10 mcg/L may be indicative of wear. However, a reported titanium value alone is not predictive of prosthesis wear or failure.

4486SP Titanium, Serum/Plasma

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Titanium
Method (CPT Code)

Compound Name	Units	Reference Comment
Titanium	mcg/L	The normal value for titanium is generally less than 5 mcg/L. In patients with a titanium-based implant/prosthesis, a serum concentration greater than 10 mcg/L may be indicative of wear. However, a reported titanium value alone is not predictive of prosthesis wear or failure.

4486U Titanium, Urine

Summary of Changes: Reference Comment was changed.

Scope of Analysis: ICP/MS (83018): Titanium
Method (CPT Code)

Compound Name	Units	Reference Comment
Titanium	mcg/L	The normal value for titanium is generally less than 5 mcg/L. In patients with a titanium-based implant/prosthesis, a urine concentration greater than 10 mcg/L may be indicative of wear. However, a reported titanium value alone is not predictive of prosthesis wear or failure.

Test Updates

Discontinued Tests

Test Code	Test Name	Alternative Test
0474FL	Asenapine, Fluid	0474SP - Asenapine, Serum/Plasma
0474TI	Asenapine, Tissue	0474SP - Asenapine, Serum/Plasma
0474U	Asenapine, Urine	0474SP - Asenapine, Serum/Plasma
9123FL	Buspirone Screen, Fluid	0805SP - Buspirone, Serum/Plasma
9123TI	Buspirone Screen, Tissue	0805SP - Buspirone, Serum/Plasma
9144SP	Cyclobenzaprine Screen, Serum/Plasma	1405SP - Cyclobenzaprine, Serum/Plasma
1640FL	Diltiazem, Fluid	1640SP - Diltiazem, Serum/Plasma
9166B	Ethambutol Screen, Blood	1959SP - Ethambutol, Serum/Plasma
9166SP	Ethambutol Screen, Serum/Plasma	1959SP - Ethambutol, Serum/Plasma
9166U	Ethambutol Screen, Urine	1959SP - Ethambutol, Serum/Plasma
1959B	Ethambutol, Blood	1959SP - Ethambutol, Serum/Plasma
1959U	Ethambutol, Urine	1959SP - Ethambutol, Serum/Plasma
9168U	Ethinamate Screen, Urine	1980SP - Ethinamate, Serum/Plasma
1980U	Ethinamate, Urine	1980SP - Ethinamate, Serum/Plasma
1032B	Methcathinone (CAT), Blood	No Alternate Tests Available
1032SP	Methcathinone (CAT), Serum/Plasma	No Alternate Tests Available
1032U	Methcathinone (CAT), Urine	No Alternate Tests Available
9210U	Methyprylon Screen, Urine	3040SP - Methyprylon, Serum/Plasma
3040U	Methyprylon, Urine	3040SP - Methyprylon, Serum/Plasma
4017U	Prilocaine, Urine	4017SP - Prilocaine, Serum/Plasma
8686B	Promazine, Blood	3960B - Promazine, Blood
8686SP	Promazine, Serum/Plasma	3960SP - Promazine, Serum/Plasma
8686U	Promazine, Urine	3960U - Promazine, Urine
4110B	Rifampin, Blood	4110SP - Rifampin, Serum/Plasma
9274B	Theophylline Screen, Blood	4387B - Theophylline, Blood
9274U	Theophylline Screen, Urine	4387U - Theophylline, Urine

NMS LABS
3701 Welsh Road
Willow Grove, PA 19090
www.NMSLabs.com