



Effective Date:
Monday, February 27, 2017

Test Updates

Immediate Action - Modified

Updated January 24, 2017: Added test codes 1486B, 1486SP, 1485B and 1485SP.

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, February 27, 2017

Test Changes - Tests that have had changes to the method/ CPT code, units of measurement, scope of analysis, reference comments, or specimen requirements.

Discontinued Tests - Tests being discontinued with alternate testing suggestions.

Please use this information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

If you have any questions about the information contained in this notification, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of NMS Labs and your assistance in implementing these changes.

The CPT Codes provided in this document are based on AMA guidelines and are for informational purposes only. NMS Labs does not assume responsibility for billing errors due to reliance on the CPT Codes listed in this document.



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Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
1486B	Carfentanil, Furanyl Fentanyl, and U-47700 (Quantitative Forensic Investigation), Blood								•
1486SP	Carfentanil, Furanyl Fentanyl, and U-47700 (Quantitative Forensic Investigation), Serum/Plasma								•
1485B	Designer Opioids, Blood								•
1485SP	Designer Opioids, Serum/Plasma								•
8054B	Postmortem, Expanded with NPS, Blood (Forensic)			•		•			
9566B	Postmortem, Synthetic Cannabinoids (Add-On), Blood			•	•	•			
5962U	Synthetic Cannabinoid Metabolites Confirmation (Qualitative) - Expanded, Urine (Forensic)					•			
9562U	Synthetic Cannabinoid Metabolites Screen - Expanded, Urine (Forensic)			•		•			
5971B	Synthetic Cannabinoids Confirmation Panel 1 (Qualitative), Blood			•	•				
5970B	Synthetic Cannabinoids Confirmation Panel 2 (Qualitative), Blood			•	•	•		•	
9560B	Synthetic Cannabinoids Screen (2017 Scope), Blood			•	•	•			



Test Updates

Test Changes

8054B Postmortem, Expanded with NPS, Blood (Forensic)

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.
Scope of Analysis was changed.
MMB-CHMICA, MO-CHMINACA, MDMB-CHMCZCA, CUMYL-THPINACA and MDMB-FUBINACA were added.
FUBIMINA, MN-25, PB-22, BB-22 and MN-18 were removed.

Specimen Requirements: 10 mL Blood
Transport Temperature: Frozen
Specimen Container: Gray top tube (NaF/KOX), Gray top tube (Sodium Fluoride / Potassium Oxalate), Lavender top tube (EDTA)
Light Protection: Yes
Special Handling: Collect sample using alcohol free skin preparation.
Rejection Criteria: Not received Light Protected. Glass container. Green top tube (Sodium Heparin).
Scope of Analysis:
Method (CPT Code)

Compound Name	Units	Reference Comment
CUMYL-THPINACA	ng/mL	
MDMB-FUBINACA	ng/mL	
MMB-CHMICA	ng/mL	
MO-CHMINACA	ng/mL	
MDMB-CHMCZCA	ng/mL	

9566B Postmortem, Synthetic Cannabinoids (Add-On), Blood

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.
Specimen Requirements (Rejection Criteria) were changed.
Stability was changed.
Scope of Analysis was changed.
CUMYL-THPINACA, MDMB-FUBINACA, MMB-CHMICA, MO-CHMINACA and MDMB-CHMCZCA were added.
BB-22, FUBIMINA, MN-25, PB-22 and MN-18 were removed.

Specimen Requirements: 5 mL Blood
Transport Temperature: Frozen
Specimen Container: Lavender top tube (EDTA)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: Received Room Temperature. Received Refrigerated. Green top tube (Sodium Heparin).
Stability: Room Temperature: 1 day(s)
Refrigerated: 1 day(s)
Frozen (-20 °C): 30 day(s)



Test Updates

Test Changes

Scope of Analysis: LC-MS/MS QTRAP (80307): PX1, PX2, AB-FUBINACA, 5F-ADBICA, 5F-ADB-PINACA, ADB-FUBINACA, AB-PINACA, 5F-PB-22, 5F-AMB, FUB-AMB, CUMYL-THPINACA, FUB-PB-22, 5F-ADB, ADBICA, ADB-PINACA, AM-2201, AB-CHMINACA, MDMB-FUBINACA, FUB-JWH-018, APP-CHMINACA (PX3), 5F-MN-18, ADB-CHMINACA, THJ-2201, AMB, MMB-CHMICA, XLR-11, FUB-144, NM-2201, 5F-APICA, JWH-018, MMB-CHMINACA (MDMB-CHMICA), MA-CHMINACA, 5F-AB-001, JWH-122, MDMB-CHMINACA, MO-CHMINACA, 5F-APINACA (5F-AKB-48), THJ-018, UR-144, EG-2201, FUB-AKB-48, APICA, MDMB-CHMCZCA, APINACA (AKB-48)

Compound Name	Units	Reference Comment
CUMYL-THPINACA	ng/mL	
MDMB-FUBINACA	ng/mL	
MMB-CHMICA	ng/mL	
MO-CHMINACA	ng/mL	
MDMB-CHMCZCA	ng/mL	

5962U Synthetic Cannabinoid Metabolites Confirmation (Qualitative) - Expanded, Urine (Forensic)

Summary of Changes: Scope of Analysis was changed.
5F-ADB 3,3-dimethyl-butanoic acid, FUB-AMB 3-methyl-butanoic acid, MDMB-FUBINACA 3,3-dimethyl-butanoic acid, ADB-CHMINACA 3,3-dimethyl-butanoic acid and 5F-AMB 3-methyl-butanoic acid were added.
JWH-073 N-Butanoic acid was removed.

Scope of Analysis: LC-MS/MS (80352): JWH-018 N-pentanoic acid, UR-144 N-pentanoic acid, AKB48
Method (CPT Code) N-pentanoic acid, AB-FUBINACA oxobutanoic acid, AB-CHMINACA 3-methyl-butanoic acid, PB-22 3-Carboxyindole, 5-Fluoro-PB-22 3-Carboxyindole, BB-22 3-Carboxyindole, ADB-PINACA N-pentanoic acid, AB-PINACA N-pentanoic acid, ADBICA N-pentanoic acid, ADB-CHMINACA 3,3-dimethyl-butanoic acid, 5F-AMB 3-methyl-butanoic acid, 5F-ADB 3,3-dimethyl-butanoic acid, FUB-AMB 3-methyl-butanoic acid, MDMB-FUBINACA 3,3-dimethyl-butanoic acid

Compound Name	Units	Reference Comment
ADB-CHMINACA 3,3-dimethyl-butanoic acid	ng/mL	ADB-CHMINACA, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products are sold under a wide variety of names including (but not limited to) K2 and Spice. These products may be used as an alternative to marijuana.

Based on structural similarities between ADB-CHMINACA and AB-CHMINACA, and what is known about AB-CHMINACA metabolism, ADB-CHMINACA 3,3-dimethyl-butanoic acid is expected to be a major metabolite of ADB-CHMINACA in humans.



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Compound Name	Units	Reference Comment
5F-AMB 3-methyl-butanoic acid	ng/mL	<p>5F-AMB, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products are sold under a wide variety of names including (but not limited to) K2 and Spice. These products may be used as an alternative to marijuana.</p> <p>5F-AMB 3-methyl-butanoic acid has been identified as a major metabolite of 5F-AMB in humans.</p>
5F-ADB 3,3-dimethyl-butanoic acid	ng/mL	<p>5F-ADB, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products are sold under a wide variety of names including (but not limited to) K2 and Spice. These products may be used as an alternative to marijuana.</p> <p>Based on structural similarities between 5F-ADB and 5F-AMB, and what is known about 5F-AMB metabolism, 5F-ADB 3,3-dimethyl-butanoic acid is expected to be a major metabolite of 5F-ADB in humans.</p>
FUB-AMB 3-methyl-butanoic acid	ng/mL	<p>FUB-AMB, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products are sold under a wide variety of names including (but not limited to) K2 and Spice. These products may be used as an alternative to marijuana.</p> <p>Based on structural similarities between FUB-AMB and 5F-AMB, and what is known about 5F-AMB metabolism, FUB-AMB 3-methyl-butanoic acid is expected to be a major metabolite of FUB-AMB in humans.</p>
MDMB-FUBINACA 3,3-dimethyl-butanoic acid	ng/mL	<p>MDMB-FUBINACA, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products are sold under a wide variety of names including (but not limited to) K2 and Spice. These products may be used as an alternative to marijuana.</p> <p>Based on structural similarities between MDMB-FUBINACA and 5F-AMB, and what is known about 5F-AMB metabolism, MDMB-FUBINACA 3,3-dimethyl-butanoic acid is expected to be a major metabolite of MDMB-FUBINACA in humans.</p>

9562U Synthetic Cannabinoid Metabolites Screen - Expanded, Urine (Forensic)



Test Updates

Test Changes

Summary of Changes: Specimen Requirements were changed.
Scope of Analysis was changed.
ADB-CHMINACA 3,3-dimethyl-butanoic acid, 5F-AMB 3-methyl-butanoic acid, 5F-ADB 3,3-dimethyl-butanoic acid, FUB-AMB 3-methyl-butanoic acid and MDMB-FUBINACA 3,3-dimethyl-butanoic acid were added.
JWH-073 N-Butanoic acid was removed.

Specimen Requirements: 5 mL Urine
Transport Temperature: Refrigerated
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: None
Scope of Analysis: LC-MS/MS (80304): JWH-018 N-pentanoic acid, UR-144 N-pentanoic acid, AKB48 N-pentanoic acid, AB-FUBINACA oxobutanoic acid, AB-CHMINACA 3-methyl-butanoic acid, PB-22 3-Carboxyindole, 5-Fluoro-PB-22 3-Carboxyindole, BB-22 3-Carboxyindole, ADB-PINACA N-pentanoic acid, AB-PINACA N-pentanoic acid, ADBICA N-pentanoic acid, ADB-CHMINACA 3,3-dimethyl-butanoic acid, 5F-AMB 3-methyl-butanoic acid, 5F-ADB 3,3-dimethyl-butanoic acid, FUB-AMB 3-methyl-butanoic acid, MDMB-FUBINACA 3,3-dimethyl-butanoic acid

Compound Name	Units	Reference Comment
ADB-CHMINACA 3,3-dimethyl-butanoic acid	ng/mL	
5F-AMB 3-methyl-butanoic acid	ng/mL	
5F-ADB 3,3-dimethyl-butanoic acid	ng/mL	
FUB-AMB 3-methyl-butanoic acid	ng/mL	
MDMB-FUBINACA 3,3-dimethyl-butanoic acid	ng/mL	

5971B Synthetic Cannabinoids Confirmation Panel 1 (Qualitative), Blood

Summary of Changes: Specimen Requirements (Rejection Criteria) were changed.
Stability 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.
Stability: Room Temperature: 1 day(s)
Refrigerated: 7 day(s)
Frozen (-20 °C): 30 day(s)



Test Updates

Test Changes

5970B Synthetic Cannabinoids Confirmation Panel 2 (Qualitative), Blood

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.
 Specimen Requirements (Rejection Criteria) were changed.
 Stability was changed.
 Scope of Analysis was changed.
 MMB-CHMICA, CUMYL-THPINACA, MDMB-FUBINACA, MO-CHMINACA and MDMB-CHMCZCA were added.
 Reference Comment was changed.
 MN-25, FUBIMINA, PB-22, BB-22 and MN-18 were removed.

Specimen Requirements: 2 mL Blood
 Transport Temperature: Frozen
 Specimen Container: Lavender top tube (EDTA)
 Light Protection: Not Required
 Special Handling: None
 Rejection Criteria: Received Room Temperature. Received Refrigerated.
 Stability: Room Temperature: 1 day(s)
 Refrigerated: 1 day(s)
 Frozen (-20 °C): 30 day(s)
 Scope of Analysis: LC-MS/MS (80352): 5F-AMB, 5F-PB-22, FUB-AMB, FUB-PB-22, 5F-ADB, FUB-
 Method (CPT Code) JWH-018, 5F-MN-18, AMB, THJ-2201, MMB-CHMINACA (MDMB-CHMICA), 5F-
 APICA, NM-2201, FUB-144, MA-CHMINACA, 5F-AB-001, 5F-APINACA (5F-AKB-48), MDMB-CHMINACA, EG-2201, THJ-018, APICA, FUB-AKB-48, APINACA (AKB-48), MO-CHMINACA, MDMB-CHMCZCA, MMB-CHMICA, CUMYL-THPINACA, MDMB-FUBINACA

Compound Name	Units	Reference Comment
5F-AMB	ng/mL	5F-AMB is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana. This analyte has demonstrated instability under certain storage conditions which may be dependent upon matrix, pH, collection tube, and storage temperature. Negative results should be interpreted with caution.
FUB-AMB	ng/mL	FUB-AMB is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.



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Compound Name	Units	Reference Comment
		This analyte has demonstrated instability under certain storage conditions which may be dependent upon matrix, pH, collection tube, and storage temperature. Negative results should be interpreted with caution.
FUB-PB-22	ng/mL	FUB-PB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
5F-ADB	ng/mL	5F-ADB is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
THJ-2201	ng/mL	THJ-2201 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
MMB-CHMINACA (MDMB-CHMICA)	ng/mL	MMB-CHMINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
NM-2201	ng/mL	NM-2201 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.



Test Updates

Test Changes

Compound Name	Units	Reference Comment
FUB-144	ng/mL	FUB-144 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
MA-CHMINACA	ng/mL	MA-CHMINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
MDMB-CHMINACA	ng/mL	MDMB-CHMINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
THJ-018	ng/mL	THJ-018 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
FUB-AKB-48	ng/mL	FUB-AKB-48 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
MO-CHMINACA	ng/mL	MO-CHMINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been published which evaluate the pharmacological effects of this compound.



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Compound Name	Units	Reference Comment
MDMB-CHMCZCA	ng/mL	MDMB-CHMCZCA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been published which evaluate the pharmacological effects of this compound.
MMB-CHMICA	ng/mL	MMB-CHMICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.
CUMYL-THPINACA	ng/mL	CUMYL-THPINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been published which evaluate the pharmacological effects of this compound.
MDMB-FUBINACA	ng/mL	MDMB-FUBINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to and demonstrates functional activity at the same brain receptor as THC, the active component of marijuana.

9560B Synthetic Cannabinoids Screen (2017 Scope), Blood

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.
Specimen Requirements (Rejection Criteria) were changed.
Stability was changed.
Scope of Analysis was changed.
MMB-CHMICA, MO-CHMINACA, MDMB-CHMCZCA, CUMYL-THPINACA and MDMB-FUBINACA were added.
BB-22, FUBIMINA, MN-25, PB-22 and MN-18 were removed.



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Test Changes

Specimen Requirements: 5 mL Blood
Transport Temperature: Frozen
Specimen Container: Lavender top tube (EDTA)
Light Protection: Not Required
Special Handling: None
Rejection Criteria: Received Room Temperature. Received Refrigerated. Green top tube (Sodium Heparin).
Stability: Room Temperature: 1 day(s)
Refrigerated: 1 day(s)
Frozen (-20 °C): 30 day(s)
Scope of Analysis: LC-MS/MS QTRAP (80307): PX1, PX2, AB-FUBINACA, 5F-ADBICA, 5F-ADB-PINACA, ADB-FUBINACA, AB-PINACA, 5F-PB-22, 5F-AMB, FUB-AMB, CUMYL-THPINACA, FUB-PB-22, 5F-ADB, ADBICA, ADB-PINACA, AM-2201, AB-CHMINACA, MDMB-FUBINACA, FUB-JWH-018, APP-CHMINACA (PX3), 5F-MN-18, ADB-CHMINACA, THJ-2201, AMB, MMB-CHMICA, XLR-11, FUB-144, NM-2201, 5F-APICA, JWH-018, MMB-CHMINACA (MDMB-CHMICA), MA-CHMINACA, 5F-AB-001, JWH-122, MDMB-CHMINACA, MO-CHMINACA, 5F-APINACA (5F-AKB-48), THJ-018, UR-144, EG-2201, FUB-AKB-48, APICA, MDMB-CHMCZCA, APINACA (AKB-48)

Compound Name	Units	Reference Comment
CUMYL-THPINACA	ng/mL	
MDMB-FUBINACA	ng/mL	
MMB-CHMICA	ng/mL	
MO-CHMINACA	ng/mL	
MDMB-CHMCZCA	ng/mL	



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Discontinued Tests

Test Code	Test Name	Alternative Test
1486B	Carfentanil, Furanyl Fentanyl, and U-47700 (Quantitative Forensic Investigation), Blood	1480B - Designer Opioids (2017 Scope), Blood
1486SP	Carfentanil, Furanyl Fentanyl, and U-47700 (Quantitative Forensic Investigation), Serum/Plasma	1480SP - Designer Opioids (2017 Scope), Serum/Plasma
1485B	Designer Opioids, Blood	1480B - Designer Opioids (2017 Scope), Blood
1485SP	Designer Opioids, Serum/Plasma	1480SP - Designer Opioids (2017 Scope), Serum/Plasma