Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB	11/13/2014
Gender:	Female
Patient Identifiers:	01234567890ABCD, 012345
Visit Number (FIN):	01234567890ABCD
Collection Date:	00/00/0000 00:00

Synthetic Cannabinoid Metabolites, Qualitative, Urine

ARUP test code 3000508

Synthetic Cannabinoid Metabolites, Urine

See Note

Analysis and Comments	Result	Units
5-fluoro-PINACA 3-methylbutanoic acid Urine Reporting Limit: 0.20 ng/mL	None Det	ng/mL
Synonym(s): 5F-AMB 3-methyl-butanoic acid; 5F-AMB M7 5-fluoro-PINACA 3-methylbutanoic acid (5F-AMB 3-methyl-butanoic acid) is a known or presumed metabolite of the following synthetic cannabinoid(s): 5-fluoro-MMB-PINACA (5-fluoro AMB); 5-fluoro-EMB-PINACA (5F-AEB). It may also be a metabolite of other synthetic cannabinoids with similar structures. Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)		
4-fluoro-BINACA 3,3-dimethylbutanoic acid Urine Reporting Limit: 0.20 ng/mL	None Det	ng/mL
Synonym(s): 4-fluoro-BUTINACA 3,3-dimethylbutanoic acid 4-fluoro-BINACA 3,3-dimethylbutanoic acid (4-fluoro-BUTINACA 3,3-dimethylbutanoic acid) is a known or presumed metabolite of the following synthetic cannabinoid(s): 4F-MDMB BINACA (4F-MDMB-BUTINACA). It may also be a metabolite of other synthetic cannabinoids with similar structures. Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)		
5-fluoro-PICA 3,3-dimethylbutanoic acid Urine Reporting Limit: 0.50 ng/mL	None Det	ng/mL
Synonym(s): 5F-MDMB-PICA metabolite 7 5-fluoro-PICA 3,3-dimethylbutanoic acid is a known or presumed metabolite of the following synthetic cannabinoid(s): 5-fluoro-MDMB-PICA. It may also be a metabolite of other synthetic cannabinoids with similar structures. Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)		
5-fluoro-PINACA 3,3-dimethylbutanoic acid Urine Reporting Limit: 0.20 ng/mL	None Det	ng/mL
Synonym(s): 5F-ADB 3,3-dimethyl-butanoic acid 5-fluoro-PINACA 3,3-dimethylbutanoic acid (5F-ADB 3,3-dimethyl-butanoic acid) is a known or		

H=High, L=Low, *=Abnormal, C=Critical

presumed metabolite of the following synthetic cannabinoid(s): 5-fluoro-MDMB-PINACA (5F-ADB); 5-fluoro-EDMB-PINACA.
It may also be a metabolite of other synthetic cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)

MDMB-4en-PINACA butanoic acid	None Det	ng/mL	
Urine			
Reporting Limit: 0.20 ng/mL			

Synonym(s): MDMB-4en-PINACA 3,3-dimethylbutanoic acid; MDMB-PENINACA butanoic acid
MDMB-4en-PINACA butanoic acid is a known or presumed metabolite of the following synthetic cannabinoid(s): 4F-MDMB-4en-PINACA.
It may also be a metabolite of other synthetic cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)

FUBINACA 3-methylbutanoic acid	None Det	ng/mL	
Urine			
Reporting Limit: 0.20 ng/mL			

Synonym(s): FUB-AMB 3-methyl-butanoic acid
FUBINACA 3-methylbutanoic acid (FUB-AMB 3-methyl-butanoic acid) is a known or presumed metabolite of the following synthetic cannabinoid(s): AMB-FUBINACA (AB-FUBINACA); MMB-FUBINACA (FUB-AMB); EMB-FUBINACA.
It may also be a metabolite of other synthetic cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)

FUBINACA 3,3-dimethylbutanoic acid	None Det	ng/mL	
Urine			
Reporting Limit: 0.50 ng/mL			

Synonym(s): MDMB-FUBINACA 3,3-dimethyl-butanoic acid; MDMB-FUBINACA M1
Comment:
Substance(s) known to interfere with the identity and/or quantity of the reported result: Quetiapine
FUBINACA 3,3-dimethylbutanoic acid (MDMB-FUBINACA 3,3-dimethyl-butanoic acid; MDMB-FUBINACA M1) is a known or presumed metabolite of the following synthetic cannabinoid(s): MDMB-FUBINACA; ADMB-FUBINACA (ADB-FUBINACA).
It may also be a metabolite of other synthetic cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)

4-carboxy-NA-PIM	None Det	ng/mL	
Urine			
Reporting Limit: 0.20 ng/mL			

Synonym(s): JWH-018 N-pentanoic acid
4-carboxy-NA-PIM (JWH-018 N-pentanoic acid) is a known or presumed metabolite of the following synthetic cannabinoid(s): NA-PIM (JWH-18).
It may also be a metabolite of other synthetic cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)
This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.
Testing performed at NMS Labs, Inc.
200 Welsh Road
Horsham, PA 19044-2208
CLIA 39D0197898

H=High, L=Low, *=Abnormal, C=Critical

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Synthetic Cannabinoid Metabolites, Urine	22-187-149247	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical