

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

Physician: Doctor, Example

Patient: Patient, Example

DOB	9/12/1977
Gender:	Male
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 act 5-fluoro-PINACA 3-methylbutanoic acid (5F-AMB 3-methyl-butanoic acid) is a kno metabolite of the following synthetic ca 5-fluoro-MMB-PINACA (5-fluoro AMB); 5-fluoro-EMB-PINACA (5F-AEB). It may also be a metabolite of other syn cannabinoids with similar structures. Analysis by High Performance Liquid Chro Tandem Mass Spectrometry (LC-MS/MS) 4-fluoro-BINACA 3,3-dimethylbutanoic act Urine Reporting Limit: 0.20 ng/mL	id; 5F-AMB M7 own or presum annabinoid(s) nthetic omatography/ idNone Det	ed : ng/mL	
	Synonym(s): 4-fluoro-BUTINACA 3,3-dimeth 4-fluoro-BINACA 3,3-dimethylbutanoic ac (4-fluoro-BUTINACA 3,3-dimethylbutanoic known or presumed metabolite of the fol synthetic cannabinoid(s): 4F-MDMB BINAC/ (4F-MDMB-BUTINACA). It may also be a metabolite of other syn cannabinoids with similar structures. Analysis by High Performance Liquid Chro Tandem Mass Spectrometry (LC-MS/MS) 5-fluoro-PICA 3,3-dimethylbutanoic acid Urine Reporting Limit: 0.50 ng/mL	nylbutanoic a id acid) is a lowing hthetic omatography/ None Det	cid ng/mL	
	Synonym(s): 5F-MDMB-PICA metabolite 7 5-fluoro-PICA 3,3-dimethylbutanoic acid known or presumed metabolite of the foll synthetic cannabinoid(s): 5-fluoro-MDMB- It may also be a metabolite of other syn cannabinoids with similar structures. Analysis by High Performance Liquid Chro Tandem Mass Spectrometry (LC-MS/MS) 5-fluoro-PINACA 3,3-dimethylbutanoic act Urine Reporting Limit: 0.20 ng/mL	is a lowing -PICA. thetic omatography/ idNone Det	ng/mL	
	Synonym(s): 5F-ADB 3,3-dimethyl-butanoid 5-fluoro-PINACA 3,3-dimethylbutanoic ac (5F-ADB 3,3-dimethyl-butanoic acid) is a	c acid id a known or		

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

Unless otherwise indicated, testing performed at:



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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 Positive
                                                                                                          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:
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 (IC-MS/MS)
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
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H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:



VERIFIED/REPORTED DATES					
Procedure	Accession	Collected	Received	Verified/Reported	
Synthetic Cannabinoid Metabolites, Urine	22-182-127960	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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com 500 Chipeta Way, Sati Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director Patient: Patient, Example ARUP Accession: 22-182-127960 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 3 of 3 | Printed: 7/27/2022 10:29:16 AM 4848