lipomed
SERVICES TO HEALTH

Analytical Reference Standards

2019/05

SYNTHETIC CANNABINOIDS

Synthetic cannabinoids are cannabinoid receptor agonists showing CB1 and CB2 binding affinities, resulting in producing cannabis-like effects.

These compounds have become very popular as «legal high» smoking mixtures, among which the brand name «Spice» is the most well-known. Due to the fast expanding «Spice»-phenomenon, control measures have been implemented in many countries to make «Spice» compounds illegal.

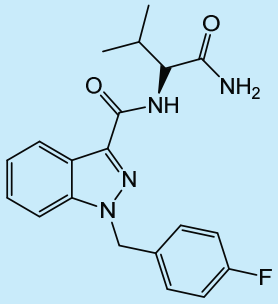
Nevertheless, the huge number of potentially psychoactive synthetic cannabinoids (for ex. JWH-, CP-, HU-, WIN-, RCS-, AM-compounds) presents an ongoing challenge for the forensic and toxicological identification.

Lipomed currently supplies a first range of synthetic cannabinoids and metabolites available as ready-to-use calibrated forms and/or as standard pack sizes of 10 mg, 50 mg and 100 mg. For more information, please check our website **www.lipomed.com.**

AB-CHMINACA

$C_{20}H_{28}N_4O_2$ M.W.: 356.47

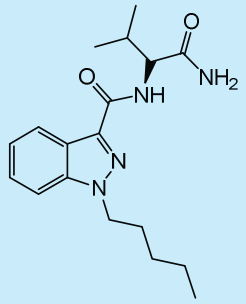
AB-1741-0.1LA	0.1 mg/1 ml	calibrated solution in acetonitrile
AB-1741-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile
AB-1741-10	10 mg	powder
AB-1741-50	50 mg	powder
AB-1741-100	100 mg	powder



AB-FUBINACA

$C_{20}H_{21}FN_4O_2$ M.W.: 368.41

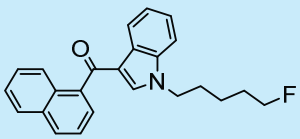
FUB-1621-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
FUB-1621-1LM	1.0 mg/1 ml	calibrated solution in methanol
FUB-1621-10	10 mg	powder
FUB-1621-50	50 mg	powder
FUB-1621-100	100 mg	powder



AB-PINACA

$C_{18}H_{26}N_4O_2$ M.W.: 330.43

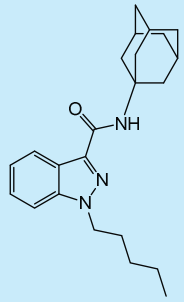
ABP-1624-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
ABP-1624-1LM	1.0 mg/1 ml	calibrated solution in methanol
ABP-1624-10	10 mg	powder
ABP-1624-50	50 mg	powder
ABP-1624-100	100 mg	powder



AM-2201

$C_{24}H_{22}FNO$ M.W.: 359.44

JWH-1503-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1503-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1503-10	10 mg	powder
JWH-1503-50	50 mg	powder
JWH-1503-100	100 mg	powder

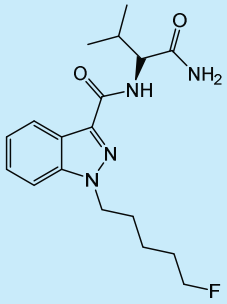


APINACA

Synonym : AKB-48

$C_{23}H_{31}N_3O$ M.W.: 365.52

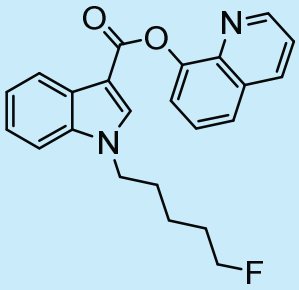
AKB-1631-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
AKB-1631-1LM	1.0 mg/1 ml	calibrated solution in methanol
AKB-1631-10	10 mg	powder
AKB-1631-50	50 mg	powder
AKB-1631-100	100 mg	powder



5F-AB-PINACA

$C_{18}H_{25}FN_4O_2$ M.W.: 348.42

ABF-1620-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
ABF-1620-1LM	1.0 mg/1 ml	calibrated solution in methanol
ABF-1620-10	10 mg	powder
ABF-1620-50	50 mg	powder
ABF-1620-100	100 mg	powder

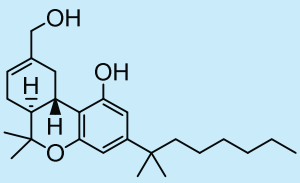


5F-PB-22

Synonym : 5-Fluoro-PB-22; 5F-QUPIC

$C_{23}H_{21}FN_2O_2$ M.W.: 376.43

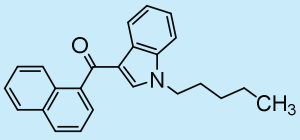
PBF-1623-0.1LA	0.1 mg/1 ml	calibrated solution in acetonitrile
PBF-1623-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile
PBF-1623-10	10 mg	powder
PBF-1623-50	50 mg	powder
PBF-1623-100	100 mg	powder



HU-210

$C_{25}H_{38}O_2$ M.W.: 386.58

HU-1617-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
HU-1617-1LM	1.0 mg/1 ml	calibrated solution in methanol

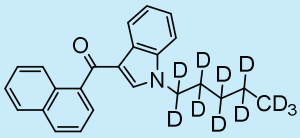


JWH-018

Synonym : Naphthalen-1-yl-(1-pentylindol-3-yl)methanone

$C_{24}H_{23}NO$ M.W.: 341.45

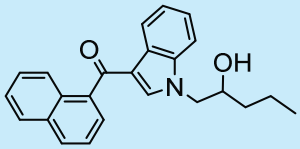
JWH-1294-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1294-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1294-10	10 mg	powder
JWH-1294-50	50 mg	powder
JWH-1294-100	100 mg	powder



JWH-018-D_{11}

$C_{24}H_{12}D_{11}NO$ M.W.: 352.51

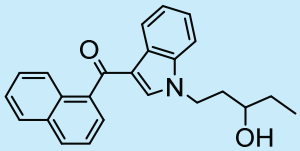
JWH-1328-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1328-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1328-10	10 mg	powder
JWH-1328-50	50 mg	powder
JWH-1328-100	100 mg	powder



JWH-018 N-(2-hydroxypentyl) metabolite

$C_{24}H_{23}NO_2$ M.W.: 357.45

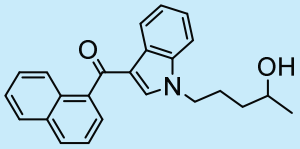
JWH-1411-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1411-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1411-10	10 mg	powder
JWH-1411-50	50 mg	powder
JWH-1411-100	100 mg	powder



JWH-018 N-(3-hydroxypentyl) metabolite

$C_{24}H_{23}NO_2$ M.W.: 357.45

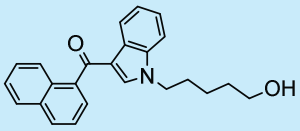
JWH-1419-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1419-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1419-10	10 mg	powder
JWH-1419-50	50 mg	powder
JWH-1419-100	100 mg	powder



JWH-018 N-(4-hydroxypentyl) metabolite

$C_{24}H_{23}NO_2$ M.W.: 357.45

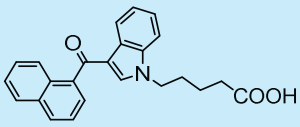
JWH-1426-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1426-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1426-10	10 mg	powder
JWH-1426-50	50 mg	powder
JWH-1426-100	100 mg	powder



JWH-018 N-(5-hydroxypentyl) metabolite

$C_{24}H_{23}NO_2$ M.W.: 357.45

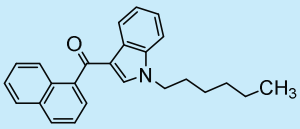
JWH-1398-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1398-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1398-10	10 mg	powder
JWH-1398-50	50 mg	powder
JWH-1398-100	100 mg	powder



JWH-018 N-pentanoic acid metabolite

$C_{24}H_{21}NO_3$ M.W.: 371.44

JWH-1393-0.1LE	0.1 mg/1 ml	calibrated solution in ethanol
JWH-1393-1LE	1.0 mg/1 ml	calibrated solution in ethanol
JWH-1393-10	10 mg	powder
JWH-1393-50	50 mg	powder
JWH-1393-100	100 mg	powder

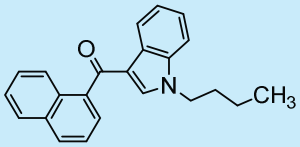


JWH-019

Synonym : Naphthalen-1-yl-(1-hexylindol-3-yl)methanone

$C_{25}H_{25}NO$ M.W.: 355.48

JWH-1362-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1362-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1362-10	10 mg	powder
JWH-1362-50	50 mg	powder
JWH-1362-100	100 mg	powder

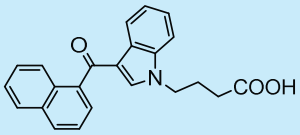


JWH-073

Synonym : Naphthalen-1-yl-(1-butylindol-3-yl)methanone

$C_{23}H_{21}NO$ M.W.: 327.42

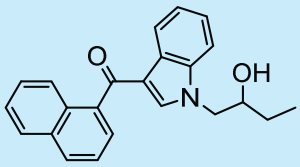
JWH-1293-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1293-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1293-10	10 mg	powder
JWH-1293-50	50 mg	powder
JWH-1293-100	100 mg	powder



JWH-073 N-butanoic acid metabolite

$C_{23}H_{19}NO_3$ M.W.: 357.40

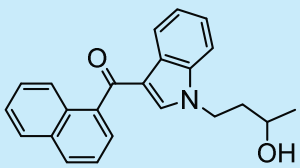
JWH-1370-0.1LE	0.1 mg/1 ml	calibrated solution in ethanol
JWH-1370-1LE	1.0 mg/1 ml	calibrated solution in ethanol
JWH-1370-10	10 mg	powder
JWH-1370-50	50 mg	powder
JWH-1370-100	100 mg	powder



JWH-073 N-(2-hydroxybutyl) metabolite

$C_{23}H_{21}NO_2$ M.W.: 343.42

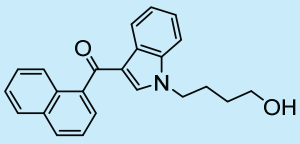
JWH-1432-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1432-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1432-10	10 mg	powder
JWH-1432-50	50 mg	powder
JWH-1432-100	100 mg	powder



JWH-073 N-(3-hydroxybutyl) metabolite

$C_{23}H_{21}NO_2$ M.W.: 343.42

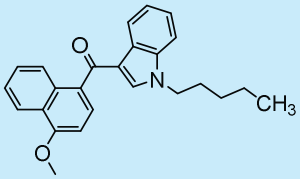
JWH-1443-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1443-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1443-10	10 mg	powder
JWH-1443-50	50 mg	powder
JWH-1443-100	100 mg	powder



JWH-073 N-(4-hydroxybutyl) metabolite

$C_{23}H_{21}NO_2$ M.W.: 343.42

JWH-1375-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1375-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1375-10	10 mg	powder
JWH-1375-50	50 mg	powder
JWH-1375-100	100 mg	powder

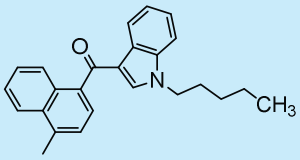


JWH-081

Synonym : 4-Methoxynaphthalen-1-yl-(1-pentylindol-3-yl)methanone

$C_{25}H_{25}NO_2$ M.W.: 371.48

JWH-1505-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1505-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1505-10	10 mg	powder
JWH-1505-50	50 mg	powder
JWH-1505-100	100 mg	powder

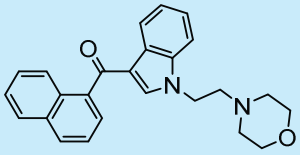


JWH-122

Synonym : (4-Methyl-1-naphthyl)-(1-pentylindol-3-yl)methanone

$C_{25}H_{25}NO$ M.W.: 355.47

JWH-1491-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1491-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1491-10	10 mg	powder
JWH-1491-50	50 mg	powder
JWH-1491-100	100 mg	powder

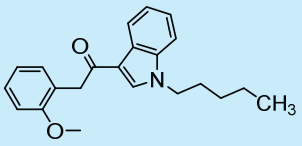


JWH-200

Synonym : (1-(2-Morpholin-4-ylethyl)indol-3-yl)-naphthalen-1-ylmethanone

$C_{25}H_{24}N_2O_2$ M.W.: 384.47

JWH-1308-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1308-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1308-10	10 mg	powder
JWH-1308-50	50 mg	powder
JWH-1308-100	100 mg	powder

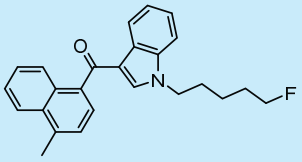


JWH-250

Synonym : 2-(2-Methoxyphenyl)-1-(1-pentylindol-3-yl)ethanone

$C_{22}H_{25}NO_2$ M.W.: 335.44

JWH-1356-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1356-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1356-10	10 mg	powder
JWH-1356-50	50 mg	powder
JWH-1356-100	100 mg	powder

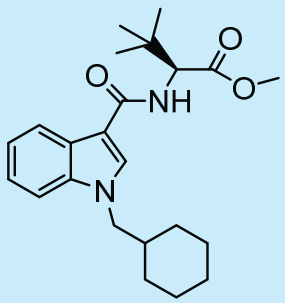


MAM-2201

Synonym : 5''-Fluoro-JWH-122

$C_{25}H_{24}FNO$ M.W.: 373.47

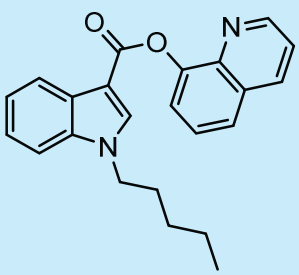
MAM-1739-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
MAM-1739-1LM	1.0 mg/1 ml	calibrated solution in methanol
MAM-1739-10	10 mg	powder
MAM-1739-50	50 mg	powder
MAM-1739-100	100 mg	powder



MDMB-CHMICA

$C_{22}H_{32}N_2O_3$ M.W.: 384.52

DMB-1845-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile
DMB-1845-10	10 mg	powder
DMB-1845-50	50 mg	powder
DMB-1845-100	100 mg	powder

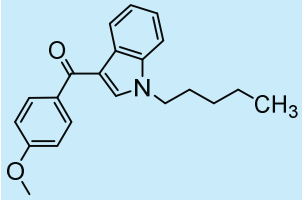


PB-22

Synonym : QUPIC

$C_{23}H_{22}N_2O_2$ M.W: 358.44

PB-1622-0.1LA	0.1 mg/1 ml	calibrated solution in acetonitrile
PB-1622-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile
PB-1622-10	10 mg	powder
PB-1622-50	50 mg	powder
PB-1622-100	100 mg	powder

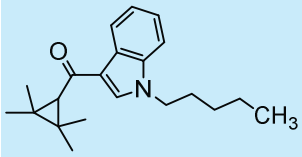


RCS-4

Synonym : SR-19

$C_{21}H_{23}NO_2$ M.W.: 321.41

RCS-1493-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
RCS-1493-1LM	1.0 mg/1 ml	calibrated solution in methanol
RCS-1493-10	10 mg	powder
RCS-1493-50	50 mg	powder
RCS-1493-100	100 mg	powder

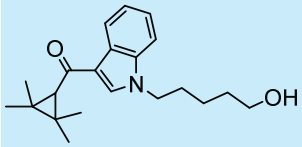


UR-144

Synonym : (1-Pentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone

$C_{21}H_{29}NO$ M.W.: 311.46

UR-1495-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
UR-1495-1LM	1.0 mg/1 ml	calibrated solution in methanol
UR-1495-10	10 mg	powder
UR-1495-50	50 mg	powder
UR-1495-100	100 mg	powder

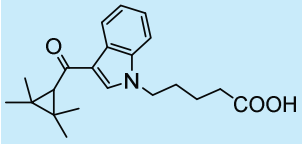


UR-144 N-(5-hydroxypentyl) metabolite

Synonym : XLR-11 N-(5-hydroxypentyl) metabolite

$C_{21}H_{29}NO_2$ M.W.: 327.47

UR-1577-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
UR-1577-1LM	1.0 mg/1 ml	calibrated solution in methanol
UR-1577-10	10 mg	powder
UR-1577-50	50 mg	powder
UR-1577-100	100 mg	powder

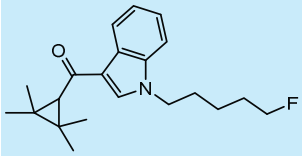


UR-144 N-pentanoic acid metabolite

Synonym : XLR-11 N-pentanoic acid metabolite

$C_{21}H_{27}NO_3$ M.W.: 341.45

UR-1576-0.1LI	0.1 mg/1 ml	calibrated solution in isopropanol
UR-1576-1LI	1.0 mg/1 ml	calibrated solution in isopropanol
UR-1576-10	10 mg	powder
UR-1576-50	50 mg	powder
UR-1576-100	100 mg	powder



XLR-11

Synonym : 5-Fluoro-UR-144

$C_{21}H_{28}FNO$ M.W.: 329.46

XLR-1575-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
XLR-1575-1LM	1.0 mg/1 ml	calibrated solution in methanol
XLR-1575-10	10 mg	powder
XLR-1575-50	50 mg	powder
XLR-1575-100	100 mg	powder

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SWITZERLAND (HEADQUARTERS)
LIPOMED AG
Fabrikmattenweg 4
4144 Arlesheim
Switzerland
Tel +41 61 702 02 00
Fax +41 61 702 02 20
lipomed@lipomed.com

AUSTRIA
LIPOMED GmbH
Breitenfurterstr. 251
1230 Wien
Austria
Tel +43 1 600 55 00 10
Fax +43 1 600 55 00 11
lipomed@lipomed.com

GERMANY
LIPOMED GmbH
Hegenheimer Str. 2
79576 Weil am Rhein
Germany
Tel +49 7621 1693 473
Fax +49 7621 1693 474
lipomed@lipomed.com

USA, CANADA, BERMUDA new
LIPOMED Inc
150 Cambridgepark Drive
Cambridge, MA 02140
USA
Tel +1 617 577 7222
Fax +1 617 577 1776
ussales@lipomed.com

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