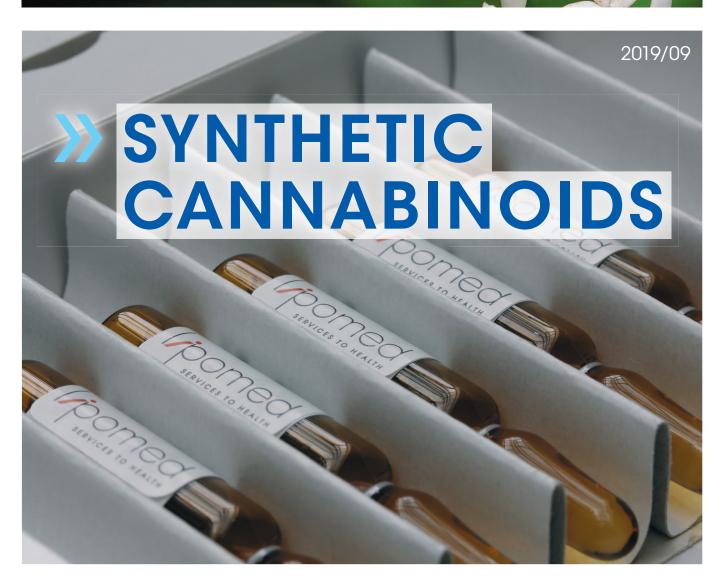


Analytical Reference Standards



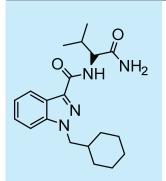
Synthetic cannabinoids are cannabinoid receptor agonists showing CB1 and CB2 binding affinities, resulting in producing cannabis-like effects.

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.

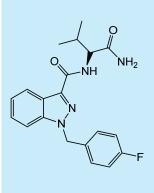
Lipomed currently supplies a first range of synthetic cannabinoids and metabolites available as ready-touse calibrated solution and/or as standard pack sizes of 10 mg, 50 mg and 100 mg. For more information, please check our website **www.lipomed.com**.



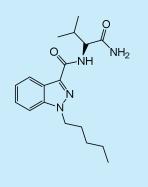




AB-CHMINACA		
$C_{20}H_{28}N_4O_2$	M.W.: 356.47	
AB-1741-0.1LA	0.1 mg/1 ml	calibrated solution in acetonitrile
AB-1741-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile
AB-1741-10	10 mg	powder
AB-1741-50	50 mg	powder
AB-1741-100	100 mg	powder



AB-FUBINACA		
$C_{20}H_{21}FN_4O_2$	M.W.: 368.41	
FUB-1621-0.1LM FUB-1621-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
FUB-1621-10 FUB-1621-50 FUB-1621-100	10 mg 50 mg 100 mg	powder powder powder

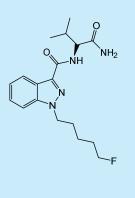


AB-PINACA		
$C_{18}H_{26}N_4O_2$	M.W.: 330.43	
ABP-1624-0.1LM ABP-1624-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
ABP-1624-10 ABP-1624-50 ABP-1624-100	10 mg 50 mg 100 mg	powder powder powder

	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
∕∕F	JWH-1503-10	10 mg	powder
	JWH-1503-50	50 mg	powder
	JWH-1503-100	100 mg	powder



	APINACA		
$\langle \rangle$	Synonym : AKB-48		
	$C_{23}H_{31}N_{3}O$	M.W.: 365.52	
м́н	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
N	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 ABF-1620-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
ABF-1620-10 ABF-1620-50 ABF-1620-100	10 mg 50 mg 100 mg	powder powder powder

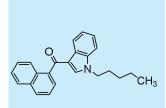
└─── _F

5F-PB-22 Synonym : 5-Fluoro-PB-22 C ₂₃ H ₂₁ FN ₂ O ₂	2; 5F-QUPIC M.W.: 376.43	
PBF-1623-0.1LA PBF-1623-1LA	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in acetonitrile calibrated solution in acetonitrile
PBF-1623-10 PBF-1623-50 PBF-1623-100	10 mg 50 mg 100 mg	powder powder powder

СОН		
(H)	ОН	
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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



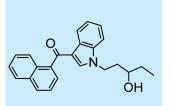


JWH-018		
Synonym : Naphthalen-1 $C_{24}H_{23}NO$	-yl-(1-pentylindol-3-yl)metho M.W.: 341.45	anone
JWH-1294-0.1LM JWH-1294-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
JWH-1294-10 JWH-1294-50 JWH-1294-100	10 mg 50 mg 100 mg	powder powder powder

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JWH-018-D ₁₁		
$C_{24}H_{12}D_{11}NO$	M.W.: 352.51	
JWH-1328-0.1LM JWH-1328-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
JWH-1328-10 JWH-1328-50 JWH-1328-100	10 mg 50 mg 100 mg	powder powder 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	



ŌН

JWH-018 N-(3-hydroxypentyl) metabolite			
C ₂₄ H ₂₃ NO ₂	M.W.: 357.45		
JWH-1419-0.1LM JWH-1419-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol	
JWH-1419-10 JWH-1419-50 JWH-1419-100	10 mg 50 mg 100 mg	powder powder powder	



	JWH-018 N-(4-hydroxypentyl) metabolite			
	C ₂₄ H ₂₃ NO ₂	M.W.: 357.45		
о Он	JWH-1426-0.1LM JWH-1426-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol	
	JWH-1426-10 JWH-1426-50 JWH-1426-100	10 mg 50 mg 100 mg	powder powder powder	

	JWH-018 N-(5-hydroxypentyl) metabolite		
	C ₂₄ H ₂₃ NO ₂	M.W.: 357.45	
	JWH-1398-0.1LM JWH-1398-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
_OH	JWH-1398-10 JWH-1398-50 JWH-1398-100	10 mg 50 mg 100 mg	powder powder powder

	JWH-018 N-pento	anoic 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
~соон	JWH-1393-10	10 mg	powder
	JWH-1393-50	50 mg	powder
	JWH-1393-100	100 mg	powder

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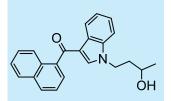
Synonym : Naphthale	n-1-yl-(1-hexylindol-3-yl)n	nethanone
C ₂₅ H ₂₅ NO	M.W.: 355.48	
JWH-1362-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
JWH-1362-1LM	1.0 mg/1 ml	calibrated solution in methanol
JWH-1362-10	10 mg	powder
JWH-1362-50	50 mg	powder
JWH-1362-100	100 mg	powder



	JWH-073		
	Synonym : Naphthale $C_{23}H_{21}NO$	n-1-yl-(1-butylindol-3-yl)m M.W.: 327.42	lethanone
	JWH-1293-0.1LM JWH-1293-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
	JWH-1293-10 JWH-1293-50 JWH-1293-100	10 mg 50 mg 100 mg	powder powder powder
	$C_{23}H_{19}NO_3$	oic acid metabolite M.W.: 357.40	
	JWH-1370-0.1LE JWH-1370-1LE	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in ethanol calibrated solution in ethanol
COOH	JWH-1370-10 JWH-1370-50	10 mg 50 mg	powder powder
	JWH-1370-100	100 mg	powder
	JWH-073 N-(2-hyc	droxybutyl) metaboli	te
	C ₂₃ H ₂₁ NO ₂	M.W.: 343.42	
о он	JWH-1432-0.1LM JWH-1432-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
	JWH-1432-10	10 mg	powder

50 mg

100 mg



JWH-1432-50

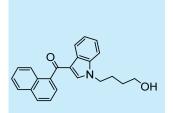
JWH-1432-100

JWH-073 N-(3-hydroxybutyl) metabolite			
C ₂₃ H ₂₁ NO ₂	M.W.: 343.42		
JWH-1443-0.1LM JWH-1443-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol	
JWH-1443-10 JWH-1443-50 JWH-1443-100	10 mg 50 mg 100 mg	powder powder powder	

powder

powder





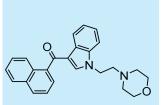
JWH-073 N-(4-hydroxybutyl) metabolite			
C ₂₃ H ₂₁ NO ₂	M.W.: 343.42		
JWH-1375-0.1LM JWH-1375-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol	
JWH-1375-10 JWH-1375-50 JWH-1375-100	10 mg 50 mg 100 mg	powder powder powder	

JWH-081 Synonym : CasHasNOa

`CH₃

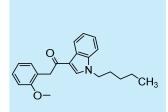
3411 661			
Synonym : 4-Methoxynaphthalen-1-yl-(1-pentylindol-3-yl)methanone			
$C_{25}H_{25}NO_{2}$	M.W.: 371.48		
JWH-1505-0.1LM JWH-1505-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol	
JWH-1505-10 JWH-1505-50 JWH-1505-100	10 mg 50 mg 100 mg	powder powder powder	

JWH-122		
Synonym : (4-Methyl-1 C ₂₅ H ₂₅ NO	I-naphthyl)-(1-pentylindol M.W.: 355.47	-3-yl)methanone
JWH-1491-0.1LM JWH-1491-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
JWH-1491-10 JWH-1491-50 JWH-1491-100	10 mg 50 mg 100 mg	powder powder powder

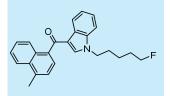


JWH-200		
Synonym : (1-(2-Morph $C_{25}H_{24}N_2O_2$	holin-4-ylethyl)indol-3-yl)-ı M.W.: 384.47	naphthalen-1-ylmethanone
JWH-1308-0.1LM JWH-1308-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
JWH-1308-10 JWH-1308-50 JWH-1308-100	10 mg 50 mg 100 mg	powder powder powder





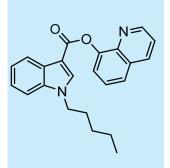
JWH-250		
Synonym : 2-(2-Methoxyp $C_{22}H_{25}NO_2$	henyl)-1-(1-pentylindol-3-yl M.W.: 335.44	lethanone
JWH-1356-0.1LM JWH-1356-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
JWH-1356-10 JWH-1356-50 JWH-1356-100	10 mg 50 mg 100 mg	powder powder powder



MAM-2201		
Synonym : 5"-Fluoro-JV		
$C_{25}H_{24}FNO$	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

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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

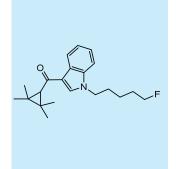


PB-22		
Synonym : QUPIC $C_{23}H_{22}N_2O_2$	M.W: 358.44	
PB-1622-0.1LA PB-1622-1LA	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in acetonitrile calibrated solution in acetonitrile
PB-1622-10 PB-1622-50 PB-1622-100	10 mg 50 mg 100 mg	powder powder powder



	RCS-4		
\sim	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
U,	RCS-1493-50	50 mg	powder
	RCS-1493-100	100 mg	powder
	100-1470-100	Too mg	powdel
	UR-144		
			hylcyclopropyl)methanone
	C ₂₁ H ₂₉ NO	M.W.: 311.46	
o,)~	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
\setminus 3	UR-1495-10	10 mg	powder
	UR-1495-50	50 mg	powder
	UR-1495-100	100 mg	powder
	UR-144 N-(5-hvdr	oxvpentvl) metabolite	8
		oxypentyl) metabolite	
~	Synonym : XLR-11 N-(5-hydroxypentyl) metaboli	
	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂	5-hydroxypentyl) metaboli M.W.: 327.47	ite
	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml	
O N OH	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂	5-hydroxypentyl) metaboli M.W.: 327.47	ite
о (р NОН	Synonym : XLR-11 N-($C_{21}H_{29}NO_2$ UR-1577-0.1LM UR-1577-1LM	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml	ite calibrated solution in methanol calibrated solution in methanol
о () - () - () - () - () - () - () - () -	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg	ite calibrated solution in methanol calibrated solution in methanol powder
о С м он	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder
о Ср	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg	ite calibrated solution in methanol calibrated solution in methanol powder
о Ср — С — ОН	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder
о Ср - (Ср - ОН	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder
С П ОН	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder
С () С () ОН	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder
	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50 UR-1577-100	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder
с,	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50 UR-1577-100	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder
с,	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50 UR-1577-100 UR-1577-100	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder powder
с С С С С	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50 UR-1577-100 UR-1577-100	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder powder
о С	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-10 UR-1577-50 UR-1577-100 UR-1577-100 UR-1577-100 UR-144 N-pentan Synonym : XLR-11 N-p C ₂₁ H ₂₇ NO ₃	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg oic acid metabolite pentanoic acid metabolite M.W.: 341.45	ite calibrated solution in methanol calibrated solution in methanol powder powder powder
	Synonym : XLR-11 N-($C_{21}H_{29}NO_2$ UR-1577-0.1LM UR-1577-1LM UR-1577-50 UR-1577-50 UR-1577-100 UR-1577-100 UR-1577-100	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg 00 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder powder e calibrated solution in isopropanol
	Synonym : XLR-11 N-(C ₂₁ H ₂₉ NO ₂ UR-1577-0.1LM UR-1577-10 UR-1577-50 UR-1577-100 UR-1577-100 UR-1577-100 UR-144 N-pentan Synonym : XLR-11 N-p C ₂₁ H ₂₇ NO ₃	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg oic acid metabolite pentanoic acid metabolite M.W.: 341.45	ite calibrated solution in methanol calibrated solution in methanol powder powder powder
Соон	Synonym : XLR-11 N-($C_{21}H_{29}NO_2$ UR-1577-0.1LM UR-1577-1LM UR-1577-10 UR-1577-50 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg 100 mg	ite calibrated solution in methanol calibrated solution in methanol powder powder powder e calibrated solution in isopropanol calibrated solution in isopropanol
Сосника и соон	Synonym : XLR-11 N-($C_{21}H_{29}NO_2$ UR-1577-0.1LM UR-1577-10 UR-1577-50 UR-1577-50 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-10 UR-1576-0.1L1 UR-1576-10	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg 00 mg 00 mg 00 mg 0.0 mg/1 ml 1.0 mg/1 ml 1.0 mg/1 ml 1.0 mg	e calibrated solution in methanol calibrated solution in methanol powder powder powder collibrated solution in isopropanol calibrated solution in isopropanol powder
Соон	Synonym : XLR-11 N-($C_{21}H_{29}NO_2$ UR-1577-0.1LM UR-1577-10 UR-1577-50 UR-1577-50 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1576-0.1L1 UR-1576-10 UR-1576-50	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg 000 mg 000 mg 0.1 mg/1 ml 1.0 mg/1 ml 1.0 mg/1 ml 1.0 mg 50 mg	e calibrated solution in methanol calibrated solution in methanol powder powder powder powder calibrated solution in isopropanol calibrated solution in isopropanol powder powder
с, С, С, Соон	Synonym : XLR-11 N-($C_{21}H_{29}NO_2$ UR-1577-0.1LM UR-1577-10 UR-1577-50 UR-1577-50 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-100 UR-1577-10 UR-1576-0.1L1 UR-1576-10	5-hydroxypentyl) metaboli M.W.: 327.47 0.1 mg/1 ml 1.0 mg/1 ml 10 mg 50 mg 100 mg 00 mg 00 mg 00 mg 0.0 mg/1 ml 1.0 mg/1 ml 1.0 mg/1 ml 1.0 mg	e calibrated solution in methanol calibrated solution in methanol powder powder powder collibrated solution in isopropanol calibrated solution in isopropanol powder





XLR-11		
Synonym : 5-Fluoro-U C ₂₁ H ₂₈ FNO	R-144 M.W.: 329.46	
XLR-1575-0.1LM XLR-1575-1LM	0.1 mg/1 ml 1.0 mg/1 ml	calibrated solution in methanol calibrated solution in methanol
XLR-1575-10 XLR-1575-50 XLR-1575-100	10 mg 50 mg 100 mg	powder powder powder

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