



New Psychoactive Substances (NPS)

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LGC offers the most extensive and up-to-date range of New Psychoactive Substances (NPS) reference materials.

The challenge

New Psychoactive Substances (NPS) continue to be identified, and it appears that moves by the United Nations and by individual countries to control lists of named NPS may be encouraging the development of yet further variants to avoid these controls.

Strategies used to develop new materials include creating modified versions of pharmaceuticals, 'reviving' forgotten pharmaceuticals from old research literature and making 'bioisosteres' of controlled materials, where sub-units within a controlled molecule are replaced by other units with similar chemical, spatial and electrical characteristics.

The LGC response

In response to the ever-expanding range of NPS being developed, LGC has produced a comprehensive range of reference materials that meet the rapidly changing demands of the NPS landscape. Many of these products are produced under the rigorous quality assurance standards set out in ISO 17034. If you don't see what you are looking for, please contact your local sales office as the range of these products is continuously evolving.

LGC Standards provides the widest range of reference materials available from any single supplier. We work closely with leading manufacturers to provide improved access to reference materials, with an increasingly large range of parameters, for laboratories worldwide. LGC Standards has both extensive reference material sales experience and technical expertise that allows us to work in successful partnership with our customers.

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1.2.25	2C-I-13C-D3	
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Ref	Substance	Other names
1.2.27	2C-N	2,5-DiMeO-4-NO ₂ -PEA
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1.2.29	2C-N-13C-D3	
1.2.30	2C-P	2,5-DiMeO-4-Pr-PEA
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1.2.37	2-C-T-4-13C,D3	
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1.2.39	2-C-T-7-D6	
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1.2.41	2-C-T-21	2,5-DiMeO-4-(2-FEtS)-PEA
1.2.42	2C-O-4	2,5-DiMeO-4-iPrO-PEA
1.2.43	2C-TFM	2,5-DiMeO-4-TriFMe-PEA
1.2.44	DMPEA	3,4-DiMeO-PEA
1.2.45	2C-O	2,4,5-TriMeO-PEA
1.2.46	2-Bromo-4,5-dimethoxyphenethylamine	2-Br-4,5-DiMeO-PEA
1.2.47	2C-G-4	5,6,7,8-TetraH-1,4-DiMeO-2-Naphth-EA
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1.3	"2C-X"-NBOMe and related derivatives	
1.3.1	25B-NBOMe, 2C-B-NBOMe, 25B-NB2OMe	N-(2-Methoxybenzyl)-2C-B
1.3.2	25B-NBOMe-D3	
1.3.3	25B-NBOMe-D6	
1.3.4	25B-NB3OMe	N-(3-Methoxybenzyl)-2C-B
1.3.5	25B-NB4OMe	N-(4-Methoxybenzyl)-2C-B
1.3.6	25-B-NBF	N-(2-Fluorobenzyl)-2C-B
1.3.7	25-NBOH, 2C-B-NBOH	N-(2-Hydroxybenzyl)-2C-B
1.3.8	2C-C-NBOMe	N-(2-Methoxybenzyl)-2C-C
1.3.9	25C-NBOMe-D3	
1.3.10	25C-NBOMe-D6	
1.3.11	25C-NB3OMe	N-(3-Methoxybenzyl)-2C-C
1.3.12	25C-NB4OMe	N-(4-Methoxybenzyl)-2C-C
1.3.13	2C-C-NBOH	N-(2-Hydroxybenzyl)-2C-C
1.3.14	25-C-NBF	N-(2-Fluorobenzyl)-2C-C
1.3.15	C30-NBOMe	N-(3,4,5-Trimethoxybenzyl)-2C-C
1.3.16	25D-NBOMe	N-(2-Methoxybenzyl)-2C-D
1.3.17	25D-NBOMe-D3	
1.3.18	25E-NBOMe	N-(2-Methoxybenzyl)-2C-E
1.3.19	25E-NBOH	N-(2-Hydroxybenzyl)-2C-E
1.3.20	25G-NBOMe	N-(2-Methoxybenzyl)-2C-G
1.3.21	25H-NBOMe	N-(2-Methoxybenzyl)-2C-H

Ref	Substance	Other names
1.3.22	25H-NB4OMe	N-(4-Methoxybenzyl)-2C-H
1.3.23	25-H-NBOMe (imine analogue)	N-(2-Methoxybenzylidene)-2C-H
1.3.24	25H-NBOH	N-(2-Hydroxybenzyl)-2C-H
1.3.25	25H-NBF	N-(2-Fluorobenzyl)-2C-H
1.3.26	25H-NBMD	N-(2,3-Methylenedioxybenzyl)-2C-H
1.3.27	25-iP-NBOMe	N-(2-Methoxybenzyl)-2C-iP
1.3.28	25I-NBF	N-(2-Fluorobenzyl)-2C-I
1.3.29	25I-NBOH	N-(2-Hydroxybenzyl)-2C-I
1.3.30	25I-NBOMe	N-(2-Methoxybenzyl)-2C-I
1.3.31	25I-NBOMe-D3	
1.3.32	25I-NBOMe-D6	
1.3.33	25I-NBOMe-D9	
1.3.34	25I-NBOMe (imine analogue)	N-(2-Methoxybenzylidene)-2C-I
1.3.35	25I-NBOMe (3-methoxy isomer)	N-(3-Methoxybenzyl)-2C-I
1.3.36	25I-NBOMe (4-methoxy isomer)	N-(4-Methoxybenzyl)-2C-I
1.3.37	N-Acetyl-25I-NBOMe	
1.3.38	25I-NBMD	N-(2,3-Methylenedioxybenzyl)-2C-I
1.3.39	25N-NBOMe	N-(2-Methoxybenzyl)-2C-N
1.3.40	25P-NBOMe	N-(2-Methoxybenzyl)-2C-P
1.3.41	2-CT-NBOMe	N-(2-Methoxybenzyl)-2C-T
1.3.42	2-CT-2-NBOMe	N-(2-Methoxybenzyl)-2C-T-2
1.3.43	2-CT-4-NBOMe	N-(2-Methoxybenzyl)-2C-T-4
1.3.44	2-CT-7-NBOMe	N-(2-Methoxybenzyl)-2C-T-7
1.3.45	Mescaline-NBOMe	N-(2-MeO benzyl)-3,4,5-TriMeO PEA
1.3.46	C20-NBOMe	N-(3,4,5-TriMeO-benzyl)-(2,3-diMeO) PEA

1.4	Methylenedioxypheophethylamines & amphetamines	
1.4.1	MDPEA	3,4-Methylenedioxy-PEA
1.4.2	MDMPEA, Homarylamine	N-Methyl-3,4-methylenedioxy-PEA
1.4.3	N-Me Homarylamine	N,N-Dimethyl-3,4-methylenedioxy-PEA
1.4.4	UWA-101	α -Cyclopropyl-3,4-MDO-N-Me-PEA
1.4.5	MDA (Tenamfetamine)	3,4-Methylenedioxy-Amph
1.4.6	MDA-D2	3,4-Methylenedioxy-Amph-D2
1.4.7	MDA-D5	3,4-Methylenedioxy-Amph-D6
1.4.8	MDA-13C6	
1.4.9	2,3-MDA	2,3-Methylenedioxy-Amph
1.4.10	MMDA-2	2-MeO-MDA
1.4.11	MMDA	3-MeO-MDA
1.4.12	MDDM, 3,4-MDDMA	N,N-Dimethyl-MDA
1.4.13	MDPR	N-Propyl-MDA
1.4.14	MDBZ	N-Benzyl-MDA
1.4.15	MDOH	N-Hydroxy-MDA
1.4.16	MDMA ('Ecstasy', 'Adam')	3,4-Methylenedioxy-Methamphet
1.4.17	MDMA-D3	3,4-Methylenedioxy-Methamphet-D3
1.4.18	MDMA-D5	3,4-Methylenedioxy-Methamphet-D5

Ref	Substance	Other names
1.4.19	MDMA-13C-6	
1.4.20	(S)-(+)-MDMA	
1.4.21	(R)-(-)-MDMA	
1.4.22	2,3-MDMA	2,3-Methylenedioxy-Methamphet
1.4.23	2,3-MDMA-D3	2,3-Methylenedioxy-Methamphet-D3
1.4.24	MMDMA	5-MeO-MDMA
1.4.25	2-Br-4,5-MDMA	2-Br-4,5-methylenedioxy-Methamphet
1.4.26	2-Cl-4,5-MDMA	2-Cl-4,5-methylenedioxy-Methamphet
1.4.27	N-OH-MDMA ('FLEA')	N-Hydroxy MDMA
1.4.28	N-tBOC-MDMA (precursor/pro-drug)	N-tert-Butoxycarbonyl MDMA
1.4.29	N-MOC-MDMA	N-Methoxycarbonyl MDMA
1.4.30	MDEA ('Eve')	3,4-Methylenedioxy-Ethamphet
1.4.31	MDEA-D5	3,4-Methylenedioxy-Ethamphet-D5
1.4.32	MDEA-D6	3,4-Methylenedioxy-Ethamphet-D6
1.4.33	MDEA-13C6	
1.4.34	MDEA 2,3 isomer	2,3-Methylenedioxy-Ethamphet
1.4.35	3,4-MDPA	3,4-Methylenedioxy-N-propylamphetamine
1.4.36	BDB ('J')	1-(1,3-Benzodioxol-5-yl)-2-butanamine
1.4.37	BDB-D2	
1.4.38	MBDB ('Eden', 'Methyl-J')	N-Me-(1,3-benzodioxol-5-yl)-2-butanamine
1.4.39	MBDB-D3	
1.4.40	MBDB-D5	
1.4.41	EBDB ('Ethyl-J')	2-EtAmino-1-(3,4-MDOphenyl)butane
1.4.42	3,4-EDMA	3,4-Ethylenedioxy-Methamphet

1.5	Indanyl analogues of methylenedioxy phenethylamines and amphetamines	
1.5.1	5-APDI, 5-(2-Aminopropyl)-2,3-dihydro-1H-indene	Indanylaminopropane; IAP
1.5.2	5-MAPDI	Indanylmethyaminopropane

1.6	Trialkoxyphenethylamines	
1.6.2	2C-O-4	2,5-DiMeO-4-iPrO-PEA
1.6.3	M (Mescaline)	3,4,5-TriMeO-PEA
1.6.4	Mescaline-D4	
1.6.5	Mescaline-D9	
1.6.6	N-Me mescaline	
1.6.7	Escaline	3,5-DiMeO-4-EtO-PEA
1.6.8	Escaline-D3	
1.6.9	Metaescaline	3,4-DiMeO-5-EtO-PEA
1.6.10	Allylescaline	3,5-DiMeO-4-(CH ₂ :CH ₂ -CH ₂ O)-PEA
1.6.11	Proscaline	3,5-DiMeO-4-PrO-PEA

1.7	"Fly" and "Dragonfly" compounds	
1.7.1	Fly	
1.7.2	2C-B-Fly	

Ref	Substance	Other names
1.7.3	2C-B-Fly-D4	
1.7.4	3C-B-Fly	alpha-Me-2C-B-Fly
1.7.5	2C-I-Fly	
1.7.6	Dragonfly	
1.7.7	Bromodragonfly'	1-(8-Bromobenzodifuran-4-yl)-2-aminopropane
1.7.8	'Bromodragonfly'-D5	
1.7.9	'Bromodragonfly'-D6	
1.7.10	R(-)-Bromodragonfly	

1.8	"Benzofurries" (APBs and APDBs)	
1.8.1	5-(2-Aminoethyl)-2,3-dihydrobenzofuran	5-AEDB
1.8.2	2-(2-Aminopropyl)benzofuran	2-APB
1.8.3	4-(2-Aminopropyl)benzofuran	4-APB
1.8.4	5-(2-Aminopropyl)benzofuran	5-APB
1.8.5	5-(2-Aminopropyl)benzofuran-D5	
1.8.6	5-(2-Aminopropyl)benzofuran-D6	
1.8.7	6-(2-Aminopropyl)benzofuran	6-APB
1.8.8	6-(2-Aminopropyl)benzofuran-D5	
1.8.9	6-(2-Aminopropyl)benzofuran-D6	
1.8.10	4- and 6-(2-Aminopropyl)benzofuran	4- & 6-APB
1.8.11	7-(2-Aminopropyl)benzofuran	7-APB
1.8.12	5-APB-NBOMe	N-MOB-5-APB
1.8.13	N-Methyl 2-(2-Aminopropyl)benzofuran	2-MAPB
1.8.14	N-Methyl 3-(2-Aminopropyl)benzofuran	3-MAPB
1.8.15	N-Methyl 4-(2-Aminopropyl)benzofuran	4-MAPB
1.8.16	N-Methyl 5-(2-Aminopropyl)benzofuran	5-MAPB
1.8.17	N-Methyl 6-(2-Aminopropyl)benzofuran	6-MAPB
1.8.18	N-Methyl 7-(2-Aminopropyl)benzofuran	7-MAPB
1.8.19	4-(N-Ethyl-2-Aminopropyl)benzofuran	4-EAPB
1.8.20	5-(N-Ethyl-2-Aminopropyl)benzofuran	5-EAPB
1.8.21	6-(N-Ethyl-2-Aminopropyl)benzofuran	6-EAPB
1.8.22	4-(2-Aminopropyl)-2,3-dihydrobenzofuran	4-APDB
1.8.23	5-(2-Aminopropyl)-2,3-dihydrobenzofuran	5-APDB
1.8.24	6-(2-Aminopropyl)-2,3-dihydrobenzofuran	6-APDB
1.8.25	7-(2-Aminopropyl)-2,3-dihydrobenzofuran	7-APDB
1.8.26	5-(N-Methyl-2-Aminopropyl)-2,3-dihydrobenzofuran	5-MAPDB

1.9	Other phenethylamine-related compounds	
1.9.1	M-ALPHA	1-Methylamino-1-(3,4-MDO-phenyl)propane.HCl
1.9.2	Heliomethylamine	MDMA methylene homologue

Ref	Parent	Metabolite
2.0	Metabolites of 'Ecstasy' Chems	
2.1	MDA	
2.1.1		3,4-Dihydroxy-Amph
2.1.2		N-Hydroxy-MDA
2.1.3		3-MeO-4-hydroxy-Amph

2.2	MDMA	
2.1.1		3,4-Dihydroxy-N-Me-Amph
2.1.2		3,4-Dihydroxy-N-Me-Amph-D3
2.1.3		3-MeO-4-hydroxy-N-Me-Amph (HMMA)
2.1.4		3-MeO-4-hydroxy-N-Me-Amph-D3
2.1.5		3-MeO-4-hydroxy-N-Me-Amph Glucuronide
2.1.6		3-MeO-4-hydroxy-N-Me-Amph-d3 Glucuronide
2.1.7		3',4'-Dihydroxyphenylacetone

2.3	MDEA	
2.3.1		3,4-Dihydroxy-N-Et-Amph
2.3.2		3-MeO-4-hydroxy-N-Et-Amph
2.3.3		3',4'-Dihydroxyphenylacetone

2.4	BDB	
2.4.1		3,4-Dihydroxyphenyl-butan-2-amine
2.4.2		3-MeO-4-hydroxyphenyl-butan-2-amine

2.5	MBDB	
2.5.1		3,4-Dihydroxyphenyl-N-Me-butan-2-amine
2.5.2		3-MeO-4-hydroxyphenyl-N-Me-butan-2-amine

Ref	Substance	Other names
3.0	Amphetamines	
3.1	Amphetamines	
3.1.1	Amphetamine	
3.1.2	R(-)-Amphetamine	
3.1.3	S(+)-Amphetamine	dexamfetamine
3.1.4	S(+)-Amphetamine-D3	
3.1.5	Amphetamine-D3	
3.1.6	Amphetamine-D5 (D on ring)	
3.1.7	Amphetamine-D5 (D on side chain)	
3.1.8	Amphetamine-D6	
3.1.9	Amphetamine-D8	
3.1.10	Amphetamine-D10	
3.1.11	Amphetamine-D11	
3.1.12	Amphetamine- 13C-6 (13C in ring)	
3.1.13	2-Br Amphetamine	
3.1.14	3-Br Amphetamine	
3.1.15	4-Br Amphetamine	
3.1.16	4-Br Amphetamine-D3	
3.1.17	2-Cl Amphetamine	
3.1.18	3-Cl Amphetamine	
3.1.19	4-Cl Amphetamine	
3.1.20	2-Fl Amphetamine	
3.1.21	2-Fl Amphetamine-D5 (D on side chain)	
3.1.22	2-Fl Amphetamine-D6	
3.1.23	3-Fl Amphetamine	
3.1.24	4-Fl Amphetamine	
3.1.25	4-Fl Amphetamine-D5 (D on side chain)	
3.1.26	4-Hydroxy Amphetamine	Hydroxyamfetamine
3.1.27	4-Hydroxy Amphetamine-D5	
3.1.28	3,4-Dihydroxy Amphetamine	
3.1.29	2-Iodo Amphetamine	
3.1.30	3-Iodo Amphetamine	
3.1.31	4-Iodo Amphetamine	
3.1.32	2-Me Amphetamine	Ortetamine
3.1.33	3-Me Amphetamine	
3.1.34	4-Me Amphetamine	
3.1.35	4-Me Amphetamine-D6	
3.1.36	2-MeO Amphetamine	
3.1.37	3-MeO Amphetamine	
3.1.38	3-MeO-4-Hydroxy-Amphetamine	
3.1.39	4-MeO-Amphetamine	PMA
3.1.40	4-MeO-Amphetamine 13C6 (13C on ring)	
3.1.41	N-(1,4-Dimethylpentyl)-4-MeO Amphetamine	
3.1.42	3-CF ₃ -Amphetamine	Desethylfenfluramine

Ref	Substance	Other names
3.1.43	4-MeS-Amphetamine	4-MTA, ('Flatliner')
3.1.44	4-Me-Amphetamine NBOMe	4-MA-NBOMe
3.1.45	4-Et-Amphetamine NBOMe	4-EA-NBOMe
3.2	Dimethoxyamines	
3.2.1	2,4-DiMeO-Amph	2,4-DMA
3.2.2	2,5-DiMeO-Amph	2,5-DMA
3.2.3	2,5-DiMeO-Amph-D6	2,5-DMA-D6
3.2.4	3,4-DiMeO-Amph	3,4-DMA
3.2.5	3,5-DiMeO-Amph	3,5-DMA
3.2.6	2,5-DiMeO-4-Me-Amph	DOM ('STP')
3.2.7	2,5-DiMeO-4-Me-Amph-D6	DOM-D6
3.2.8	2,5-DiMeO-4-Et-Amph	DOET
3.2.9	2,5-DiMeO-4-Pr-Amph	DOPR
3.2.10	2,5-DiMeO-4-Bu-Amph	DOB
3.2.11	2,5-DiMeO-4-Pentyl-Amph	DOAM
3.2.12	2,5-DiMeO-4-F-Amph	DOF
3.2.13	2,5-DiMeO-4-Cl-Amph	DOC
3.2.14	2,5-DiMeO-4-Cl-Amph-D6	DOC-D6
3.2.15	2,5-DiMeO-4-Br-Amph	DOB ('Bromo-STP')
3.2.16	2,5-DiMeO-4-Br-Amph-D5	
3.2.17	2,5-DiMeO-4-Br-Amph-D6	DOB-D6
3.2.18	2,5-DiMeO-4-I-Amph	DOI
3.2.19	2,5-DiMeO-4-I-Amph-D6	DOI-D6
3.2.20	2,5-DiMeO-4-MeS-Amph	ALEPH
3.2.21	2,5-DiMeO-4-EtS-Amph	ALEPH-2
3.2.22	2,5-DiMeO-4-iPrS-Amph	ALEPH-4
3.2.23	2,5-DiMeO-4-NO ₂ -Amph	DON
3.2.24	2,6-DiMeO-Amph	
3.2.25	3,4-DiMeO-Amph-N-Benzyl	
3.2.26	3,4-DiMeO-Amph-NBOMe	
3.2.27	N,N-DiMe-3,4-DiMeO-Amph	
3.2.28	N-Et-3,4-DiMeO-Amph	
3.2.29	N-(1-Me-pentyl)-3,4-DiMeO-Amph	
3.2.30	N-(1,4-DiMe-pentyl)-3,4-DiMeO-Amph	
3.2.31	2,5-DiMeO-4-Me-phenyl-2-aminobutane	Ariadne'; Me homologue of DOM ('STP')
3.3	Trialkoxyamines	
3.3.1	2,3,4-TriMeO-Amph	TMA-3
3.3.2	2,3,5-TriMeO-Amph	TMA-4
3.3.3	2,3,6-TriMeO-Amph	TMA-5
3.3.4	2,4,5-TriMeO-Amph	TMA-2
3.3.5	2,4,6-TriMeO-Amph	TMA-6
3.3.6	3,4,5-TriMeO-Amph	TMA
3.3.7	3,5-DiMeO-4-PrO-Amph	3C-P

Ref	Substance	Other names
3.4	N-Methyl Amphetamines	
3.4.1	Methamphetamine	N-Methylamphetamine
3.4.2	Methamphetamine-D3	
3.4.3	Methamphetamine-D5	
3.4.4	Methamphetamine-D6	
3.4.5	Methamphetamine-D8	
3.4.6	Methamphetamine-D9	
3.4.7	Methamphetamine-D11	
3.4.8	Methamphetamine-D14	
3.4.9	Methamphetamine-13C-6 (13C in ring)	
3.4.10	S(+)-Methamphetamine	
3.4.11	S(+)-Methamphetamine-D3	
3.4.12	R(-)-Methamphetamine	
3.4.13	R(-)-Methamphetamine-D3	
3.4.14	2-Fluoromethamphetamine	
3.4.15	2-Fluoromethamphetamine-D5	
3.4.16	3-Fluoromethamphetamine	
3.4.17	3-Fluoromethamphetamine-D3	
3.4.18	4-Fluoromethamphetamine	
3.4.19	4-Fluoromethamphetamine-D3	
3.4.20	4-Fluoromethamphetamine-D5 (on side chain)	
3.4.21	2-Chloromethamphetamine	
3.4.22	3-Chloromethamphetamine	
3.4.23	4-Chloromethamphetamine	
3.4.24	2-Bromomethamphetamine	
3.4.25	3-Bromomethamphetamine	
3.4.26	4-Bromomethamphetamine	
3.4.27	2-Methylmethamphetamine	
3.4.28	3-Methylmethamphetamine	
3.4.29	4-Methylmethamphetamine	
3.4.30	4-Methylmethamphetamine-NBOMe	4-MMA-NBOMe
3.4.31	2-Methoxymethamphetamine	Methoxyphenamine
3.4.32	3-Methoxymethamphetamine	
3.4.33	3-Methoxymethamphetamine-D3	
3.4.34	4-Methoxymethamphetamine	PMMA
3.4.35	4-Methoxymethamphetamine-D3	
3.4.36	4-Methoxymethamphetamine-13C6 (13C on ring)	
3.4.37	4-Methylsulfomethamphetamine	
3.4.38	4-Hydroxymethamphetamine	Pholedrine
3.4.39	4-Hydroxy-3-methylmethamphetamine	HMMA
3.4.40	3-CF ₃ -methamphetamine	
3.4.41	2,5-Dimethylmethamphetamine	2,5-DMMA
3.4.42	4-Bromo-2,5-dimethylmethamphetamine	4-Bromo-2,5-DMMA, 'MDBB'
3.4.43	3,4-Dimethylmethamphetamine	3,4-DMMA
3.4.44	N,N-Dimethylmethamphetamine	

Ref	Substance	Other names
3.4.45	N,N-Dimethylmethamphetamine-D6	
3.4.46	(R)-N,N-Dimethylmethamphetamine	
3.4.47	(R)-N,N-Dimethylmethamphetamine-D6	
3.4.48	(S)-N,N-Dimethylmethamphetamine	
3.4.49	(S)-N,N-Dimethylmethamphetamine-D6	
3.4.50	N-tBOC-methamphetamine	
3.4.51	N-MOC-methamphetamine	
3.4.52	1-(Pyridin-2-yl)propan-2-amine	Pyridinyl analogue of methamphetamine
3.5	N-Ethyl Amphetamines	
3.5.1	N-Ethylmethamphetamine	Ethamphetamine
3.5.2	N-Ethylmethamphetamine-D5	
3.5.3	(R)-N-Ethylmethamphetamine	
3.5.4	(R)-N-Ethylmethamphetamine-D5	
3.5.5	(S)-N-Ethylmethamphetamine	
3.5.6	(S)-N-Ethylmethamphetamine-D5	
3.5.7	4-Methoxy-N-Ethylmethamphetamine	PMEA
3.5.8	4-Methoxy-N-Ethylmethamphetamine-D5	
3.5.9	2-Fluoro-N-Ethylmethamphetamine	
3.5.10	3-Fluoro-N-Ethylmethamphetamine	
3.5.11	4-Fluoro-N-Ethylmethamphetamine	
3.5.12	3-Trifluoromethyl-N-Ethylmethamphetamine	Fenfluramine
3.5.13	4-Chloro-N-Ethylmethamphetamine	
3.5.14	N-(2-Cyanoethyl)methamphetamine	Fenproporex
3.5.15	N-(2-Cyanoethyl)methamphetamine-D6	
3.5.16	alpha-Ethylethamphetamine	2-Ethylamino-1-phenylbutane
3.6	Other Amphetamines	
3.6.1	N-Propylmethamphetamine	
3.6.2	N-Butylmethamphetamine	
3.6.3	N-Benzylmethamphetamine	Benzphetamine
3.6.4	N-Benzylmethamphetamine-D3	
3.6.5	(R)-N-Benzylmethamphetamine	
3.6.6	(R)-N-Benzylmethamphetamine-D3	
3.6.7	(S)-N-Benzylmethamphetamine	
3.6.8	(S)-N-Benzylmethamphetamine-D3	
3.6.9	1-(1-Benzylbutyl)pyrrolidine	Prolintane
3.6.10	N-Acetylmethamphetamine	
3.6.11	Lisdexamphetamine dimesylate	'Vyvanse'
3.6.12	Lisdexamphetamine dimesylate-D4	
3.6.13	Lidexamphetamine sulphate	

Ref	Substance	Other names
4.0	Cathinones	
4.1	Beta-keto "2C-X" compounds	
4.1.1	bk-2,5-DiMeO-4-Br-PEA	beta-keto 2C-B
4.2	Cathinones	
4.2.1	Cathinone	
4.2.2	Cathinone-D3	
4.2.3	Cathinone-D5	
4.2.4	S(-)-Cathinone	
4.2.5	S(-)-Cathinone-D3	
4.2.6	R(+)-Cathinone	
4.2.7	4-Methylcathinone	Normephedrone
4.2.8	4-MeO-cathinone	
4.2.9	3-Chlorocathinone	
4.2.10	4-Chlorocathinone	
4.2.11	3,4-Dimethylcathinone	
4.2.12	2-Fluoroisocathinone	
4.2.13	Methylenedioxycathinone	beta-keto-MDA
4.3	N-Methyl Cathinone and derivatives	
4.3.1	Methcathinone	N-Methylcathinone, Ephedrone
4.3.2	Methcathinone-D3	
4.3.3	S(-)-Methcathinone	
4.3.4	R(+)-Methcathinone	
4.3.5	2-Methylmethcathinone	
4.3.6	2-Methylmethcathinone-D3	
4.3.7	3-Methylmethcathinone	
4.3.8	3-Methylmethcathinone-D3	
4.3.9	4-Methylmethcathinone	Mephedrone
4.3.10	4-Methylmethcathinone-D3	
4.3.11	4-Methylmethcathinone-13C6 (on benzene ring)	
4.3.12	4-Methyl-N-methoxymethcathinone	N-Methoxy mephedrone
4.3.13	2-Ethylmethcathinone	
4.3.14	3-Ethylmethcathinone	
4.3.15	4-Ethylmethcathinone	4-EMC
4.3.16	4-Ethylmethcathinone-D3	
4.3.17	2-Methoxymethcathinone	
4.3.18	3-Methoxymethcathinone	
4.3.19	4-Methoxymethcathinone	Methedrone
4.3.20	4-Methoxymethcathinone-D3	
4.3.21	2-Chloromethcathinone	
4.3.22	3-Chloromethcathinone	
4.3.23	iso-3-Chloromethcathinone	
4.3.24	4-Chloromethcathinone	Clephedrone

Ref	Substance	Other names
4.3.25	2-Fluoromethcathinone	
4.3.26	2-Fluoromethcathinone-D3	
4.3.27	3-Fluoromethcathinone	
4.3.28	3-Fluoromethcathinone-D3	
4.3.29	4-Fluoromethcathinone	Flephedrone
4.3.30	4-Fluoromethcathinone-D3	
4.3.31	2-Bromomethcathinone	
4.3.32	3-Bromomethcathinone	
4.3.33	4-Bromomethcathinone	Brephedrone
4.3.34	4-Hydroxymethcathinone	
4.3.35	3,4-Dichloromethcathinone	DCMC
4.3.36	3,4-Dimethoxymethcathinone	
4.3.37	2,3-Dimethylmethcathinone	
4.3.38	2,4-Dimethylmethcathinone	
4.3.39	3,4-Dimethylmethcathinone	3,4-DMMC
4.3.40	3,4-Dimethylmethcathinone-D3	
4.3.41	3-Methyl-4-chloromethcathinone	
4.3.42	2,4,5-Trimethylmethcathinone	
4.3.43	N,N-Dimethylcathinone	Dimethylpropion, Metamfepramone
4.3.44	N,N-Dimethylcathinone-D6	
4.3.45	4-Methyl-N,N-dimethylcathinone	
4.3.46	4-Ethyl-N,N-dimethylcathinone	
4.3.47	4-Methoxy-N,N-dimethylcathinone	
4.3.48	2-Chloro-N,N-dimethylcathinone	
4.3.49	3-Chloro-N,N-dimethylcathinone	
4.3.50	4-Chloro-N,N-dimethylcathinone	
4.3.51	3,4-Dichloro-N,N-dimethylcathinone	
4.3.52	N-Ethyl-N-methylcathinone	
4.3.53	N-Cyclohexyl-N-methylcathinone	
4.3.54	2-(Methylamino)-1-(thiophen-2-yl)propan-1-one (Thiothinone)	β-keto-MPA (Thiophene analogue of methcathinone)
4.3.55	Maxedrone	3-MeO-2-MeAmino-1-(4-MePh)-propan-1-one
4.4	N-Ethyl Cathinone and derivatives	
4.4.1	N-Ethylcathinone	Ethcathinone
4.4.2	N-Ethylcathinone-D5	
4.4.3	1-Ethylamino-1-phenyl-propan-2-one	iso-Ethcathinone
4.4.4	2-Methyl-N-ethylcathinone	2-MEC
4.4.5	3-Methyl-N-ethylcathinone	3-MEC
4.4.6	4-Methyl-N-ethylcathinone	4-MEC
4.4.7	4-Methyl-N-ethylcathinone-D5	
4.4.8	4-Methoxyethcathinone	
4.4.9	2-Fluoroethcathinone	
4.4.10	3-Fluoroethcathinone	
4.4.11	4-Fluoroethcathinone	
4.4.12	2-Chloroethcathinone	

Ref	Substance	Other names
4.4.13	3-Chloroethcathinone	
4.4.14	4-Chloroethcathinone	
4.4.15	4-Chloroethcathinone-D3	
4.4.16	4-Bromoethcathinone	
4.4.17	2-Ethyl-N-ethylcathinone	
4.4.18	3-Ethyl-N-ethylcathinone	
4.4.19	4-Ethyl-N-ethylcathinone	
4.4.20	2,3-Dimethyl-N-ethylcathinone	
4.4.21	2,4-Dimethyl-N-ethylcathinone	
4.4.22	3,4-Dimethyl-N-ethylcathinone	
4.4.23	3,4-Dichloro-N-ethylcathinone	DCEC
4.4.24	N-Methyl-N-ethylcathinone	
4.4.25	N,N-Diethylcathinone	Diethylpropion, Amfepramone
4.4.26	N,N-Diethylcathinone-D10	
4.4.27	4-Me-N,N-diethylcathinone	

4.5	N-Propyl Cathinones	
4.5.1	N-Pr cathinone	
4.5.2	3-Me-N-Pr cathinone	
4.5.3	Iso(3-Me-N-Pr cathinone)	
4.5.4	4-Me-N-Pr cathinone	
4.5.5	4-Cl-N-iPr cathinone	

4.6	N-Benzyl Cathinones	
4.6.1	4-Methyl-N-benzylcathinone	Benzedrone
4.6.2	4-Methylthio-N-benzylcathinone	
4.6.3	4,N-Dimethyl-N-benzylcathinone	N-Methyl benzadrene
4.6.4	4-(DiMeAmino)-N-benzylcathinone	

4.7	Simple Butanones	
4.7.1	2-(Methylamino)-1-phenylbutan-1-one	Buphedrone
4.7.2	2-(Methylamino)-1-phenylbutan-1-one-D3	
4.7.3	2-(Methylamino)-1-(4-Cl-phenyl)-butan-1-one	4-Chlorobuphedrone
4.7.4	2-(Methylamino)-1-(4-F-phenyl)-butan-1-one	4-Fluorobuphedrone
4.7.5	2-(Methylamino)-1-(3-methylphenyl)butan-1-one	3-Methylbuphedrone
4.7.6	2-(Methylamino)-1-(4-methylphenyl)butan-1-one	4-Methylbuphedrone, 4-MeMABP
4.7.7	2-(Methylamino)-1-(4-methylphenyl)butan-1-one-D3	
4.7.8	2-Amino-1-(4-fluorophenyl)butan-1-one	
4.7.9	2-(N,N-Dimethylamino)-1-phenylbutan-1-one	
4.7.10	2-(N,N-Dimethylamino)-1-(4-methylphenyl)butan-1-one	4-Methyl-N-methylbuphedrone
4.7.11	2-(Ethylamino)-1-phenylbutan-1-one	N-Ethylbuphedrone, NEB
4.7.12	2-(Ethylamino)-1-phenyl-3,3-DiMe-butan-1-one	
4.7.13	2-(Ethylamino)-1-(4-methylphenyl)butan-1-one	
4.7.14	2-(Ethylamino)-1-(2-Me-phenyl)butan-1-one	2-Me-N-Et-buphedrone

Ref	Substance	Other names
4.7.15	2-(Ethylamino)-1-(3F-phenyl)butan-1-one	3F-N-Et-buphedrone
4.7.16	2-(Propylamino)-1-phenylbutan-1-one	N-Propylbuphedrone
4.7.17	2-(Butylamino)-1-phenylbutan-1-one	N-Butylbuphedrone

4.8	Simple Pentanones	
4.8.1	2-Amino-1-phenylpentan-1-one	Norpentedrone
4.8.2	2-(Methylamino)-1-phenylpentan-1-one	Pentedrone, β -Ethylmethcathinone
4.8.3	1-(Methylamino)-1-phenylpentan-2-one	Isopentedrone
4.8.4	2-(Methylamino)-1-(4-Fl-phenyl)pentan-1-one	4-Fluropentedrone
4.8.5	2-(Methylamino)-1-(4-Cl-phenyl)pentan-1-one	4-Chloropentedrone
4.8.6	2-(Methylamino)-1-(4-Br-phenyl)pentan-1-one	4-Bromopentedrone
4.8.7	2-(Methylamino)-1-(4-Me-phenyl)pentan-1-one	4-Methylpentenedrone
4.8.8	2-(Methylamino)-1-(4-Et-phenyl)pentan-1-one	4-Ethylpentenedrone
4.8.9	2-(Dimethylamino)-1-phenylpentan-1-one	
4.8.10	2-(Ethylamino)-1-phenylpentan-1-one	N-Ethyl pentedrone
4.8.11	2-(Ethylamino)-1-(4-Me-phenyl)pentan-1-one	4-Me-N-Ethyl pentedrone
4.8.12	2-(Ethylamino)-1-(4-MeO-phenyl)pentan-1-one	4-MeO-N-Ethyl pentedrone
4.8.13	2-(Ethylamino)-1-(4-F-phenyl)pentan-1-one	
4.8.14	2-(Ethylamino)-1-(3,4-dimethylphenyl)pentan-1-one	
4.8.15	2-(Ethylamino)-1-(3,4-dimethoxyphenyl)pentan-1-one	DL-4662
4.8.16	2-(Diethylamino)-1-(4-Cl-phenyl)pentan-1-one	4-Cl-N,N-DiEthyl pentedrone
4.8.17	2-(Diethylamino)-1-(3-EtO-4-MeO-phenyl)pentan-1-one	
4.8.18	2-(Diethylamino)-1-(3-MeO-4-EtO-phenyl)pentan-1-one	
4.8.19	2-(Propylamino)-1-phenylpentan-1-one	
4.8.20	2-(Isopropylamino)-1-phenylpentan-1-one	NiPP
4.8.21	2-(Isopropylamino)-1-(4F-phenyl)pentan-1-one	4F-iPV
4.8.22	2-(Isopropylamino)-1-(4Me-phenyl)pentan-1-one	4-Me-iPV

4.9	Simple Hexanones	
4.9.1	2-(Methylamino)-1-phenyl-hexan-1-one	Hexedrone
4.9.2	2-(Methylamino)-1-phenyl-5-methylpentan-1-one	Isohexedrone
4.9.3	2-(Methylamino)-1-(4-methylphenyl)hexan-1-one	4'-Methylhexedrone
4.9.4	2-(Dimethylamino)-1-phenyl-hexan-1-one	N,N-Dimethyl hexedrone
4.9.5	2-(Ethylamino)-1-phenyl-hexan-1-one	N-Ethyl hexedrone
4.9.6	2-(Ethylamino)-1-(4-methylphenyl)hexan-1-one	4'-Methyl N-Ethyl hexedrone
4.9.7	2-(Ethylamino)-1-(3-fluorophenyl)hexan-1-one	3'-F-N-Ethyl hexedrone
4.9.8	2-(Diethylamino)-1-phenyl-hexan-1-one	N,N-Diethyl hexedrone
4.9.9	2-(Diethylamino)-1-(3-MeO-4-EtO-phenyl)-hexan-1-one	3-MeO-4-EtO-N,N-Diethyl hexedrone
4.9.10	2-(Diethylamino)-1-(3-EtO-4-MeO-phenyl)-hexan-1-one	3-EtO-4-MeO-N,N-Diethyl hexedrone
4.9.11	2-(isoPropylamino)-1-phenyl-hexan-1-one	N-isoPropyl hexedrone
4.9.12	2-(Butylamino)-1-phenyl-hexan-1-one	N-Butyl hexedrone
4.9.13	2-(isoButylamino)-1-phenyl-hexan-1-one	N-isoButyl hexedrone
4.9.14	2-(Methylamino)-1-(4-methylpentyl)hexan-1-one	4F-N-Methyl-isoHexedrone

Ref	Substance	Other names
4.10	Simple Heptadrones	
4.10.1	2-(Ethylamino)-1-phenyl-heptan-1-one	N-Et heptedrone
4.10.2	2-(Butylamino)-1-phenyl-heptan-1-one	N-Butyl heptedrone
4.11	Other Simple Cathinones	
4.11.1	2-tert-Butyl-1-(3-chlorophenyl)propan-1-one	Bupropion
4.11.2	2-tert-Butyl-1-(3-chlorophenyl)propan-1-one-D9	
4.12	Methylenedioxycathinones (C3 to C6 sidechains)	
4.12.1	C3	
4.12.1.1	3,4-Methylenedioxycathinone	
4.12.1.2	3,4-Methylenedioxycathinone-D3	
4.12.1.3	2,3-Methylenedioxy-N-methylcathinone	
4.12.1.4	3,4-Methylenedioxy-N-methylcathinone	Methylone (β -keto-MDMA)
4.12.1.5	3,4-Methylenedioxy-N-methylcathinone-D3	
4.12.1.6	3,4-Methylenedioxy-5-methoxy-N-methylcathinone	5-Methoxymethylone
4.12.1.7	3,4-Methylenedioxy-6-methoxy-N-methylcathinone	6-Methoxymethylone
4.12.1.8	3,4-Methylenedioxy-N-ethylcathinone	Ethylone (β -keto-MDEA)
4.12.1.9	3,4-Methylenedioxy-N-ethylcathinone-D5	
4.12.1.10	3,4-Methylenedioxy-N-ethylcathinone (polymorph B)	Ethylone (polymorph B)
4.12.1.11	3,4-Methylenedioxy-5-methyl-N-ethylcathinone	R-MMC
4.12.1.12	3,4-Methylenedioxy-N-propylcathinone	
4.12.1.13	3,4-Methylenedioxy-N-isopropylcathinone	
4.12.1.14	3,4-Methylenedioxy-N-methyl-N-propyl-cathinone	
4.12.1.15	3,4-Methylenedioxy-N-methyl-N-cyclohexyl-cathinone	
4.12.1.16	3,4-Methylenedioxy-N-tert-butylcathinone	
4.12.1.17	3,4-Methylenedioxy-N-pentylcathinone	N-Pentyl methylone
4.12.1.18	3,4-Methylenedioxy-N-cyclohexylcathinone	Cyputylone
4.12.1.19	1-(3,4-Methylenedioxophenyl)-2-(N,N-dimethylamino)propan-1-one	Dimethylone (β -keto-MDDMA)
4.12.1.20	1-(3,4-Methylenedioxophenyl)-2-(N-methyl-N-ethylamino)propan-1-one	N-Me ethylone
4.12.1.21	1-(3,4-Methylenedioxophenyl)-2-(N,N-diethylamino)propan-1-one	Diethylone
4.12.1.22	1-(3,4-Methylenedioxophenyl)-2-(N-butylamino)propan-1-one	N-Butyl methylone
4.12.1.23	1-(3,4-Methylenedioxophenyl)-2-(N-pentylamino)propan-1-one	N-Pentyl methylone
4.12.1.24	3,4-Methylenedioxy-N-Acetyl-methcathinone	
4.12.1.25	3,4-Methylenedioxy-N-benzylcathinone	BMDP, Methylenedioxobenzedrone
4.12.1.26	3,4-Methylenedioxy-N-cyclohexylcathinone	
4.12.2	C4	
4.12.2.1	1-(3,4-Methylenedioxophenyl)-2-amino-butan-1-one	BDB
4.12.2.2	1-(3,4-Methylenedioxophenyl)-2-(methylamino)-butan-1-one	Butylone (β -keto-MBDB)
4.12.2.3	1-(3,4-Methylenedioxophenyl)-2-(methylamino)-butan-1-one-D3	
4.12.2.4	1-(3,4-Methylenedioxophenyl)-2-(N,N-dimethylamino)butan-1-one	Dibutylone (β -keto-MMBDB)
4.12.2.5	1-(3,4-Methylenedioxophenyl)-2-(N,N-dimethylamino)butan-1-one-D3	

Ref	Substance	Other names
4.12.2.6	1-(3,4-Methylenedioxophenyl)-2-(N,N-dimethylamino)butan-1-one-D6	
4.12.2.7	1-(3,4-Methylenedioxophenyl)-2-(ethylamino)butan-1-one	Eutylone
4.12.2.8	1-(3,4-Methylenedioxophenyl)-2-(ethylamino)butan-1-one-D5	
4.12.2.9	1-(2,3-Methylenedioxophenyl)-2-(ethylamino)butan-1-one	2,3-Eutylone
4.12.2.10	1-(3,4-Methylenedioxophenyl)-2-(N-methyl-N-ethylamino)butan-1-one	N-Me-N-Et-Butylone
4.12.2.11	1-(3,4-Methylenedioxophenyl)-2-(N-methyl-N-propylamino)butan-1-one	N-Me-N-Pr-Butylone
4.12.2.12	1-(3,4-Methylenedioxophenyl)-2-(N-methyl-N-butylamino)butan-1-one	N-Me-N-Bu-Butylone
4.12.2.13	1-(3,4-Methylenedioxophenyl)-2-(propylamino)butan-1-one	N-Pr-Butylone
4.12.2.14	1-(3,4-Methylenedioxophenyl)-2-(isopropylamino)butan-1-one	N-iPr-Butylone
4.12.2.15	1-(3,4-Methylenedioxophenyl)-2-(butylamino)butan-1-one	N-Butyl butylone
4.12.2.16	1-(3,4-Methylenedioxophenyl)-2-(N-cyclohexyl)butan-1-one	N-Cyclohexyl butylone
4.12.2.17	1-(3,4-Methylenedioxophenyl)-2-(N-methylamino)-3-Me-butan-1-one	
4.12.2.18	1-(3,4-Methylenedioxophenyl)-2-(N,N-dimethylamino)-3-Me-butan-1-one	
4.12.2.19	1-(3,4-Methylenedioxophenyl)-2-(ethylamino)-3-Me-butan-1-one	
4.12.2.20	N-Benzyl-(3,4-MDO)-2-aminobutan-1-one	BMDB, N-Benzylnorbutylone
4.12.2.21	1-Indenyl-2-ethylamino-butan-1-one	bk-EABDI
4.12.3	C5	
4.12.3.1	1-(1,3-Benzodioxol-5-yl)-2-(methylamino)pentan-1-one	Pentylone (β -keto-MBDP)
4.12.3.2	1-(1,3-Benzodioxol-5-yl)-2-(dimethylamino)pentan-1-one	N,N-Dimethylpentylone, Dipentylone
4.12.3.3	1-(1,3-Benzodioxol-5-yl)-2-(dimethylamino)pentan-1-one-D6	
4.12.3.4	1-(1,3-Benzodioxol-5-yl)-2-(ethylamino)pentan-1-one	N-Ethylpentylone
4.12.3.5	1-(1,3-Benzodioxol-5-yl)-2-(ethylamino)pentan-1-one-D5	
4.12.3.6	1-(1,3-Benzodioxol-5-yl)-2-(methyl(ethyl)amino)pentan-1-one	N-Me-N-Et pentylone
4.12.3.7	1-(1,3-Benzodioxol-5-yl)-2-(diethylamino)pentan-1-one	N,N-Diethylpentylone
4.12.3.8	1-(7-MeO-1,3-Benzodioxol-5-yl)-2-(diethylamino)pentan-1-one	5-MeO-N,N-Diethylpentylone
4.12.3.9	1-(8-MeO-1,3-Benzodioxol-5-yl)-2-(diethylamino)pentan-1-one	6-MeO-N,N-Diethylpentylone
4.12.3.10	1-(1,3-Benzodioxol-5-yl)-2-(methyl(propyl)amino)pentan-1-one	N-Me-N-Pr pentylone
4.12.3.11	1-(1,3-Benzodioxol-5-yl)-2-(methyl(isopropyl)amino)pentan-1-one	N-Me-N-iPr pentylone
4.12.3.12	1-(1,3-Benzodioxol-5-yl)-2-(butylamino)pentan-1-one	N-Butyl pentylone
4.12.3.13	1-(1,3-Benzodioxol-5-yl)-2-(butylamino)pentan-1-one-D5	
4.12.3.14	1-(1,3-Benzodioxol-5-yl)-2-(butylamino)pentan-1-one-D9	
4.12.3.15	1-(1,3-Benzodioxol-5-yl)-2-(iso-butylamino)pentan-1-one	N-isobutyl pentylone
4.12.3.16	1-(1,3-Benzodioxol-5-yl)-2-(sec-butylamino)pentan-1-one	N-sec-butyl pentylone
4.12.3.17	1-(1,3-Benzodioxol-5-yl)-2-(tert-butylamino)pentan-1-one	N-tert-butyl pentylone
4.12.4	C6	
4.12.4.1	1-(1,3-Benzodioxol-5-yl)-2-aminohexan-1-one	Hexylone
4.12.4.2	1-(1,3-Benzodioxol-5-yl)-2-(methylamino)hexan-1-one	N-Methylhexylone
4.12.4.3	1-(1,3-Benzodioxol-5-yl)-2-(ethylamino)hexan-1-one	N-Ethylhexylone
4.12.4.4	1-(1,3-Benzodioxol-5-yl)-2-(methylethylamino)hexan-1-one	N-Me-N-Et-hexylone
4.12.4.5	1-(1,3-Benzodioxol-5-yl)-2-(diethylamino)hexan-1-one	N,N-Diethylhexylone
4.12.4.6	1-(7-MeO-1,3-Benzodioxol-5-yl)-2-(diethylamino)hexan-1-one	5-MeO-N,N-Diethyl hexylone
4.12.4.7	1-(1,3-Benzodioxol-5-yl)-2-(propylamino)hexan-1-one	N-Propylhexylone

Ref	Substance	Other names
4.12.4.8	1-(1,3-Benzodioxol-5-yl)-2-(isopropylamino)hexan-1-one	N-isoPropylhexylone
4.12.4.9	1-(1,3-Benzodioxol-5-yl)-2-(methylamino)-4-Me-pentan-1-one	N-Methylisohexylone

4.12.5	C7	
4.12.5.1	1-(1,3-Benzodioxol-5-yl)-2-(dimethylamino)heptan-1-one	N,N-Dimethylheptylone
4.12.5.2	1-(1,3-Benzodioxol-5-yl)-2-(ethylamino)heptan-1-one	N-Ethylheptylone

4.13	Ethylenedioxycathinones	
4.13.1	3,4-Ethylenedioxy-N-methylcathinone	3,4-EDMC, Analogue of methylone

4.14	Pyrrolidinocathinones [C3 to C8 sidechains]	
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4.14.1	C3	
4.14.1.1	alpha-Pyrrolidinopropiophenone	α -PPP
4.14.1.2	alpha-Pyrrolidinopropiophenone-D5	
4.14.1.3	2-Methyl-alpha-pyrrolidinopropiophenone	
4.14.1.4	3-Methyl-alpha-pyrrolidinopropiophenone	
4.14.1.5	4-Methyl-alpha-pyrrolidinopropiophenone	MPPP
4.14.1.6	4-Methyl-alpha-pyrrolidinopropiophenone-D8	
4.14.1.7	4-Methoxy-alpha-pyrrolidinopropiophenone	4-MeO- α -PPP
4.14.1.8	4-Methoxy-alpha-pyrrolidinopropiophenone-D8	
4.14.1.9	4-Chloro-alpha-pyrrolidinopropiophenone	4-Cl- α -PPP
4.14.1.10	3-Fluoro-alpha-pyrrolidinopropiophenone	
4.14.1.11	4-Fluoro-alpha-pyrrolidinopropiophenone	
4.14.1.12	3,4-Dimethoxy-alpha-pyrrolidinopropiophenone	
4.14.1.13	4'-MeS-2-morpholino-2-methylpropiophenone	Irgacure 907, Caccure 907

4.14.2	C4	
4.14.2.1	alpha-Pyrrolidinobutiphenone	α -PBP
4.14.2.2	alpha-Pyrrolidinobutiphenone-D8	
4.14.2.3	2-Methyl-alpha-pyrrolidinobutiphenone	
4.14.2.4	3-Methyl-alpha-pyrrolidinobutiphenone	
4.14.2.5	4-Methyl-alpha-pyrrolidinobutiphenone	MPBP
4.14.2.6	4-Methoxy-alpha-pyrrolidinobutiphenone	
4.14.2.7	4-Fluoro-alpha-pyrrolidinobutiphenone	4F-PBP
4.14.2.8	alpha-Piperidinobutiphenone	
4.14.2.9	alpha-Pyrrolidinobutiothiophenone	α -PBT (thiophene analogue of α -PBP)

4.14.3	C5	
4.14.3.1	1-Phenyl-2-(1-pyrrolidinyl)-pentan-1-one	Pyrrolidinovalerophenone, α -PVP
4.14.3.2	1-Phenyl-2-(1-pyrrolidinyl)-pentan-1-one-D8	
4.14.3.3	1-(4-Methylphenyl)-2-(1-pyrrolidinyl)-pentan-1-one	Pyrovalerone
4.14.3.4	Pyrovalerone-D8	

Ref	Substance	Other names
4.14.3.5	1-(2-Methylphenyl)-2-(1-pyrrolidinyl)-pentan-1-one	2-Me- α -PVP
4.14.3.6	1-(4-Ethylphenyl)-2-(1-pyrrolidinyl)-pentan-1-one	4-Et- α -PVP; Ethyl pyrovalerone
4.14.3.7	3-Fluoro-alpha-pyrrolidinopentiophenone	3-Fl- α -PVP
4.14.3.8	3-Bromo-alpha-pyrrolidinopentiophenone	3-Br- α -PVP
4.14.3.9	4-Fluoro-alpha-pyrrolidinopentiophenone	4-Fl- α -PVP
4.14.3.10	4-Chloro-alpha-pyrrolidinopentiophenone	4-Cl- α -PVP
4.14.3.11	4-Bromo-alpha-pyrrolidinopentiophenone	4-Br- α -PVP
4.14.3.12	4-Methoxy-alpha-pyrrolidinopentiophenone	MOPPP
4.14.3.13	3,4-Dimethoxy-alpha-pyrrolidinopentiophenone	3,4 DiMeO α -PVP
4.14.3.14	2,5-Dimethyl-alpha-pyrrolidinopentiophenone	2,5 DiMe α -PVP
4.14.3.15	3,4-Dimethyl-alpha-pyrrolidinopentiophenone	3,4 DiMe α -PVP
4.14.3.16	3-Fluoro-4-methyl-alpha-pyrrolidinopentiophenone	3-F,4-Me- α -PVP
4.14.3.17	4-Fluoro-3-methyl-alpha-pyrrolidinopentiophenone	4-F,3-Me- α -PVP

4.14.4	C6	
4.14.4.1	alpha-Pyrrolidinohexanophenone	α -PHP
4.14.4.2	alpha-Pyrrolidinohexanophenone-D8	
4.14.4.3	4-Methyl-alpha-pyrrolidinohexanophenone	MPHP
4.14.4.4	4-Methyl-alpha-pyrrolidinohexanophenone-D8	
4.14.4.5	3-Fluoro-alpha-pyrrolidinohexanophenone	3F-PHP
4.14.4.6	4-Fluoro-alpha-pyrrolidinohexanophenone	4F-PHP, 4F-PV7
4.14.4.7	4-Chloro-alpha-pyrrolidinohexanophenone	
4.14.4.8	4-Fluoro-3-methyl-alpha-pyrrolidinohexanophenone	4F-3-Me-PHP
4.14.4.9	3,4-Dimethoxy-alpha-pyrrolidinohexanophenone	
4.14.4.10	alpha-Pyrrolidinoisohexanophenone	α -PiHP
4.14.4.11	alpha-Pyrrolidinoisohexanophenone-D8	
4.14.4.12	3-Fluoro-alpha-pyrrolidinoisohexanophenone	3-F- α -PiHP
4.14.4.13	2-Me-alpha-pyrrolidinoisohexanophenone	2-Me- α -PiHP
4.14.4.14	4-Me-alpha-pyrrolidinoisohexanophenone	4-Me- α -PiHP
4.14.4.15	3,4-Dichloro-alpha-pyrrolidinoisohexanophenone	3,4-Dichloro- α -PiHP

4.14.5	C7	
4.14.5.1	1-Phenyl-2-(1-pyrrolidinyl)-heptan-1-one	PV8
4.14.5.2	1-(4-Fl-phenyl)-2-(1-pyrrolidinyl)-heptan-1-one	4-Fl-PV8
4.14.5.3	1-(4-Me-phenyl)-2-(1-pyrrolidinyl)-heptan-1-one	4-Me-PV8
4.14.5.4	1-(4-MeO-phenyl)-2-(1-pyrrolidinyl)-heptan-1-one	4-MeO-PV8

4.14.6	C8	
4.14.6.1	1-Phenyl-2-(1-pyrrolidinyl)-octan-1-one	PV9
4.14.6.1	1-(4-Fl-phenyl)-2-(1-pyrrolidinyl)-octan-1-one	4-Fl-PV9
4.14.6.1	1-(4-MeO-phenyl)-2-(1-pyrrolidinyl)-octan-1-one	4-MeO-PV9

4.14.7	C9	
4.14.7.1	1-Phenyl-2-(1-pyrrolidinyl)-nonan-1-one	α -PNP

Ref	Substance	Other names
4.14.8 Others:		
4.14.8.1	alpha-Pyrrolidinopentiothiophenone	α-PVT (thiophene analogue of pyrovalerone)
4.14.8.2	alpha-Pyrrolidinocyclohexanophenone	α-PCYP
4.14.8.3	alpha-Pyrrolidino-2-phenyl-acetophenone	α-D2PV, (note similarity to Fluorolintane)
4.15	Methylenedioxypyrrolidinocathinones	
4.15.1	C3	
4.15.1.1	3,4-Methylenedioxophenyl-alpha-pyrrolidinopropiophenone	MDPPP
4.15.1.2	3,4-Methylenedioxophenyl-alpha-pyrrolidinopropiophenone-D-8	
4.15.2	C4	
4.15.2.1	3,4-Methylenedioxophenyl-alpha-pyrrolidinobutiophenone	MDPBP
4.15.2.2	3,4-Methylenedioxophenyl-alpha-pyrrolidinobutiophenone-D8	
4.15.3	C5	
4.15.3.1	Methylenedioxypyrovalerone (HCl)	MDPV
4.15.3.2	(-)Methylenedioxypyrovalerone	
4.15.3.3	(+)-Methylenedioxypyrovalerone	
4.15.3.4	Methylenedioxypyrovalerone (free base)	
4.15.3.5	Methylenedioxypyrovalerone-D8	
4.15.3.6	2,3-Methylenedioxypyrovalerone	
4.15.3.7	1-(2,3-Dihydrobenzofuran-5-yl)-2-(pyrrolidin-1-yl)pentan-1-one	5-DBFPV, 3-Desoxy MDPV
4.15.4	C6	
4.15.4.1	3,4-Methylenedioxophenyl-alpha-pyrrolidinohexanophenone	3,4-MDPHP
4.15.4.2	3,4-Methylenedioxophenyl-alpha-pyrrolidinoisohexanophenone	
4.15.5	C7	
4.15.5.1	3,4-Methylenedioxophenyl-alpha-pyrrolidinoheptanophenone	3,4-MDO-PV8
4.15.6	C8	
4.15.6.1	3,4-Methylenedioxophenyl-alpha-pyrrolidinoctanophenone	3,4-MDO-PV9
4.15.6.2	3,4-Methylenedioxophenyl-alpha-pyrrolidinocyclohexanophenone	3,4-MDO-PCYP
4.16	Naphthyl cathinones	
4.16.1	2-(Methylamino)-1-(naphthalen-2-yl)pentan-2-one	"NRG3", Naphthyl analogue of pentylylone

Ref	Substance	Other names
4.17 Naphthyl pyrrolidinocathinones		
4.17.1	1-Naphthylpyrovalerone	α-Naphyrone;1-Naphyrone
4.17.2	2-Naphthylpyrovalerone	2-Naphyrone
4.17.3	2-Naphthylpyrovalerone-D5	
4.17.4	2-Naphthylpyrovalerone-D8	
4.18	Tetrahydronaphthyl pyrrolidinocathinones	
4.18.1	3',4'-Tetramethylene-α-pyrrolidinobutiophenone	TH-PBP
4.18.2	3',4'-Tetramethylene-α-pyrrolidinovalerophenone	TH-PVP, 3',4'-tetramethylenaphyrone
4.19	Indanyl analogues of cathinones	
4.19.1	Indanyl-methylcathinone	βk-IMP; bk-indanylmethyaminopropane
4.19.2	Indanyl-pentedrone	
4.19.3	Indanyl-N-Et-buphedrone	βk-IBP
4.19.4	Indanyl-N-Et-pentedrone	βk-IVP
4.19.5	Indanyl-α-PBP	5-PPDI
4.19.6	Indanyl-α-PVP	
4.19.7	Indanyl-α-PHP	5-BPDI
4.19.8	Indanyl-α-PBP	
4.19.9	Indanyl-N-piperidinylpentedrone	bk-IPP
4.20	Related materials	
4.20.1	N-Piperidinyl heptylone	
4.20.2	α-Phthalimidopropiophenone	

Ref	Parent compound	Metabolite
5.0	Metabolites of Cathinones	
5.1	Mephedrone	
5.1.1		Nor-mephedrone
5.1.2		4-Methylephedrine
5.1.3		4-Methylephedrine-D3
5.1.4		4-Methylpseudoephedrine
5.1.5		4-Carboxymephedrone
5.1.6		4-Hydroxymephedrone
5.2	Methedrone	
5.2.1		4-Methoxypseudoephedrine
5.3	Ethcathinone	
5.3.1		N-Ethylnorephedrine
5.3.2		N-Ethylnorephedrine-D5
5.4	3,4-Dimethylmethcathinone	
5.4.1		3,4-Dimethylephedrine
5.4.2		3,4-Dimethylpseudoephedrine
5.4.3		3,4-Dimethylnorephedrine
5.4.4		3,4-Dimethylnorephedrine-D3 (on methyl)
5.4.5		3,4-Dimethylnorephedrine-D4
5.5	4-MEC	
5.5.1		4-Methyl-N-ethynorephedrine
5.5.2		4-Methyl-N-ethynorephedrine
5.5.3		4-Methyl-N-ethynorephedrine-D5
5.5.4		4-Methyl-N-ethylpseudoephedrine
5.5.5		4-Methyl-N-ethylephedrine
5.6	Flephedrone	
5.6.1		4-Fluoroephedrine
5.6.2		4-Fluoroephedrine-D3
5.6.3		4-Fluorpseudoephedrine
5.7	4-EMC	
5.7.1		4-Ethylephedrine
5.8	Buphedrone	
5.8.1		Buphedrine
5.8.2		Buphedrine-D3
5.8.3		Pseudobuphedrine

Ref	Parent compound	Metabolite
5.9	Pentedrone	
5.9.1		2-(Methylamino)-1-phenylpentan-1-ol
5.9.1		Norephedrine metab
5.9.1		Norephedrine metab- D5
5.10	alpha-PVP	
5.10.1		1-Phenyl-2-(pyrrolidin-1-yl)pentan-1-ol
5.11	alpha-PHP	
5.11.1		β -hydroxy PHP
5.12	MDPV	
5.12.1		Metabolite #1; 3-Methoxy-4-hydroxypyrovalerone
5.12.2		3,4-Dihydroxypyrovalerone
5.13	Bupropion	
5.13.1		Hydroxybupropion

Ref	Substance	Other names
6.0	Tryptamines	
6.1	Tryptamine	
6.1.1	Tryptamine-D4	
6.1.2	5-Chlorotryptamine	
6.1.3	4-Hydroxytryptamine	
6.2	alpha-Alkyl Tryptamines	
6.2.1	alpha-Methyltryptamine	AMT
6.2.2	5-Methoxy-alpha-methyltryptamine	5-MeO-AMT
6.2.3	5-Methoxy-alpha,N-dimethyltryptamine	
6.2.4	N-Hydroxy-alpha-methyltryptamine	
6.2.5	5-Chloro-alpha-methyltryptamine	5-Cl-AMT
6.2.6	5-Fluoro-alpha-methyltryptamine	5F-AMT
6.2.7	alpha-Ethyltryptamine	AET
6.2.8	4-Methyl-alpha-ethyltryptamine	
6.2.9	5-Methoxy-alpha-ethyltryptamine	5-MeO-AET
6.3	N-Alkyl Tryptamines	
6.3.1	N-Methyltryptamine	
6.3.2	N-Methyltryptamine-D3	
6.3.3	N,N-Dimethyltryptamine	DMT
6.3.4	N,N-Dimethyltryptamine-D4	
6.3.5	N,N-Dimethyltryptamine-D6	
6.3.6	N,N-Dimethyltryptamine-N-oxide	
6.3.7	5-Chloro-N,N-dimethyltryptamine	5-Cl-DMT
6.3.8	5-Bromo-N,N-dimethyltryptamine	5-Br-DMT
6.3.9	N,N-Dimethyltryptamine N-oxide	
6.3.10	N-Methyl-N-ethyltryptamine	MET
6.3.11	N-Methyl-N-isopropyltryptamine	
6.3.12	N-Methyl-N-cyclopropyltryptamine	McPT
6.3.13	N,N-Diethyltryptamine	DET
6.3.14	N-Ethyl-N-Propyltryptamine	EPT
6.3.15	N,N-Dipropyltryptamine	DPT
6.3.16	N,N-Dipropyltryptamine-D4	
6.3.17	N-Propyl-N-isopropyltryptamine	
6.3.18	N,N-Diisopropyltryptamine	DiPT
6.3.19	N,N-Diisopropyltryptamine-D4	
6.3.20	N,N-Diisobutyltryptamine	DiBT
6.3.21	N-Methyl-N-Allyltryptamine	MALT
6.3.22	N,N-Diallyltryptamine	DALT
6.3.23	RU-28306	DMT with α-carbon linked back to phenyl ring

Ref	Substance	Other names
6.4	Ring-Methoxy N-Alkyl Tryptamines	
6.4.1	4-Methoxy-N,N-dimethyltryptamine	4-MeO-DMT
6.4.2	4-Methoxy-N,N-dimethyltryptamine-D4	
6.4.3	4-Methoxy-N-methyl-N-isopropyltryptamine	4-MeO-M-iPr-T
6.4.4	4-Methoxy-N,N-diisopropyltryptamine	
6.4.5	5-Methoxytryptamine	
6.4.6	5-Methoxy-N-methyltryptamine	
6.4.7	5-Methoxy-N,N-dimethyltryptamine	5-MeO-DMT
6.4.8	5-Methoxy-N,N-dimethyltryptamine-D4	Ds on ethylamine chain
6.4.9	5-Methoxy-N,N-dimethyltryptamine-D6	
6.4.10	2-Methyl-5-methoxy-dimethyltryptamine	Me on N
6.4.11	5-Methoxy-N-methyl-N-ethyltryptamine	5-MeO-MET
6.4.12	5-Methoxy-N,N-diethyltryptamine	
6.4.13	5-Methoxy-N-isopropyltryptamine	Foxy, 5-MeO-DiPT
6.4.14	5-Methoxy-N-isopropyltryptamine-D4	
6.4.15	5-Methoxy-N-methyl-N-isopropyltryptamine	5-MeO-MiPT
6.4.16	5-Methoxy-N-ethyl-N-isopropyltryptamine	
6.4.17	5-Methoxy-N-ethyl-N-propyltryptamine	
6.4.18	5-Methoxy-N,N-dipropyltryptamine	
6.4.19	5-Methoxy-N,N-diisopropyltryptamine	Foxy methoxy, 5-MeO-DiPT
6.4.20	5-Methoxy-N,N-diisopropyltryptamine-D4	
6.4.21	5-Methoxy-N,N-diisopropylbenzofuran	5-MeO-DIBF (5-MeO-DiPT benzofuran analogue)
6.4.22	5-Methoxy-N,N-dibutyltryptamine	5-MeO-DBT
6.4.23	5-Methoxy-N,N-diisobutyltryptamine	5-MeO-DiBT
6.4.24	5-Methoxy-N-methyl-N-allyltryptamine	5-MeO-MALT
6.4.25	5-Methoxy-N,N-diallyltryptamine	5-MeO-DALT
6.4.26	5-Methoxy-pyrrolidinyltryptamine	5-MeO-tetramethylenetryptamine, 5-MeO-pyr-T
6.4.27	5-Methylthio-N,N-dimethyltryptamine	
6.4.28	6-Methoxy-N,N-dimethyltryptamine	6-MeO-DMT
6.4.29	6-Methoxy-N,N-diisopropyltryptamine	6-MeO-DiPT
6.4.30	7-Methoxy-N,N-diisopropyltryptamine	
6.5	Ring-Hydroxy N-Alkyl Tryptamines	
6.5.1	4-Hydroxy-N-methyltryptamine	Norpsilocin
6.5.2	4-Hydroxy-N-methyltryptamine-D4	
6.5.3	4-Hydroxy-N,N-dimethyltryptamine	Psilocin
6.5.4	4-Hydroxy-N,N-dimethyltryptamine-D4	
6.5.5	4-Hydroxy-N,N-dimethyltryptamine-D6	
6.5.6	4-Hydroxy-N,N-dimethyltryptamine-D10	
6.5.7	4-Hydroxy-N-methyl-N-ethyltryptamine	4-HO-MET, Metocin
6.5.8	4-Hydroxy-N-methyl-N-ethyltryptamine-D4	
6.5.9	4-Hydroxy-N,N-diethyltryptamine	4-HO-DET
6.5.10	4-Hydroxy-N,N-diethyltryptamine-D4	
6.5.11	4-Hydroxy-N-isopropyltryptamine	4-HO-iPT
6.5.12	4-Hydroxy-N-methyl-N-propyltryptamine	
6.5.13	4-Hydroxy-N-methyl-N-isopropyltryptamine	4-HO-MiPT

Ref	Substance	Other names
6.5.14	4-Hydroxy-N-methyl-N-isopropyltryptamine-D4	
6.5.15	4-Hydroxy-N-methyl-N-allyltryptamine	4-HO-MALT
6.5.16	4-Hydroxy-N-ethyl-N-propyltryptamine	4-HO-EPT
6.5.17	4-Hydroxy-N,N-dipropyltryptamine	4-HO-DPT
6.5.18	4-Hydroxy-N-propyl-N-isopropyltryptamine	4-HO-PIPT
6.5.19	4-Hydroxy-N,N-diisopropyltryptamine	4-HO-DiPT
6.5.20	4-Hydroxy-N,N-diallyltryptamine	4-HO-DALT
6.5.21	4-Hydroxy-N-methyl-N-cyclopropyl tryptamine	4-HO-McPT
6.5.22	4-Hydroxy-N,N,N-trimethyltryptamine	4-HO-TMT
6.5.23	5-Hydroxy-N-methyltryptamine	5-HO-MPT
6.5.24	5-Hydroxy-N,N-dimethyltryptamine	5-HO-DMT, Bufotenine
6.5.25	5-Hydroxy-N,N-dimethyltryptamine-D4	
6.5.26	5-Hydroxy-N,N,N-trimethyltryptamine	Bufoenidine

6.6	Ring-Acetoxy N-Alkyl Tryptamines	
6.6.1	4-Acetoxy-N-methyltryptamine	4-AcO-NMT
6.6.2	4-Acetoxy-N,N-dimethyltryptamine	O-Acetylpsilocin, 4-AcO-DMT
6.6.3	4-Acetoxy-N,N-dimethyltryptamine-D4	
6.6.4	4-Acetoxy-N-methyl-N-ethyltryptamine	4-AcO-MET
6.6.5	4-Acetoxy-N-methyl-N-propyltryptamine	4-AcO-MPT
6.6.6	4-Acetoxy-N-methyl-N-isopropyltryptamine	4-AcO-MiPT
6.6.7	4-Acetoxy-N,N-diethyltryptamine	4-AcO-DET
6.6.8	4-Acetoxy-N-ethyl-N-propyltryptamine	4-AcO-EPT
6.6.9	4-Acetoxy-N-ethyl-N-isopropyltryptamine	4-AcO-EiPT
6.6.10	4-Acetoxy-N,N-dipropyltryptamine	4-AcO-DPT
6.6.11	4-Acetoxy-N-propyl-N-isopropyltryptamine	4-AcO-PiPT
6.6.12	4-Acetoxy-N,N-diisopropyltryptamine	4-AcO-DiPT, Ipracetin
6.6.13	4-Acetoxy-N-methyl-N-allyltryptamine	4-AcO-MALT
6.6.14	4-Acetoxy-N,N-diallyltryptamine	4-AcO-DALT
6.6.15	4-Acetoxy-N,N,N-trimethyltryptamine	4-AcO-TMT
6.6.16	5-Acetoxy-N,N-dimethyltryptamine	5-AcO-DMT

6.7	Ring Propionyloxy N-Alkyl Tryptamines	
6.7.1	4-Propionyloxy-N,N-dimethyltryptamine	

6.8	Other mushroom hallucinogens	
6.8.1	4-Phosphoryloxy-tryptamine	Norbaeocystin, N,N-didesmethyl psilocybin
6.8.2	4-Phosphoryloxy-N-methyltryptamine	Baeocystin
6.8.3	4-Phosphoryloxy-N-methyltryptamine-D4	
6.8.4	4-Phosphoryloxy-N,N-dimethyltryptamine	Psilocybin
6.8.5	4-Phosphoryloxy-N,N-dimethyltryptamine-D4	
6.8.6	4-Phosphoryloxy-N,N-dimethyltryptamine-D6	
6.8.7	4-Phosphoryloxy-N,N-dimethyltryptamine-D10	
6.8.8	4-Phosphoryloxy-N,N,N-trimethyltryptamine	Aeruginascin, N-Trimethyl psilocybin
6.8.9	4-Phosphoryloxy-N,N,N-trimethyltryptamine-D3	

Ref	Substance	Other names
6.8.10	Mix of phosphorylated tryptamines	Psilocybin, Aeruginascin, Baeocystin, Norbaeocystin
6.8.11	4-Hydroxy-indole-3-acetic acid	Metabolite of psilocin and psilocybin

6.9	Lysergamide and related materials	
6.9.1	Lysergic acid	
6.9.2	Lysergic acid amide	Ergine
6.9.3	Lysergic acid N,N-diethylamide	LSD
6.9.4	Lysergic acid N,N-diethylamide-D3	
6.9.5	Lysergic acid N,N-diethylamide-D10	
6.9.6	Lysergic acid N-methyl-N-propylamide	LAMPA
6.9.7	Lysergic acid N-methyl-N-isopropylamide	MiPIA
6.9.8	Lysergic acid N-ethyl-N-isopropylamide	EiPLA
6.9.9	iso-LSD	
6.9.10	iso-LSD-D10	
6.9.11	nor-LSD	
6.9.12	1-Acetyl LSD	ALD-52
6.9.13	1-Propionyl LSD	1P-LSD
6.9.14	1-Cyclopropionyl LSD	1-Cyclopropylcarbonyl-LSD, 1cP-LSD
6.9.15	1-Propionyl-methylisopropyllysergamide	1P-MiPLA
6.9.16	1-Cyclopropionyl-methylisopropyllysergamide	1cP-MiPLA
6.9.17	1-Butyryl LSD	1B-LSD
6.9.18	1-Valeroyl LSD	1V-LSD
6.9.19	6-Allyl nor-LSD	AL-LAD
6.9.20	6-Allyl noriso-LSD	Iso-Al-LAD
6.9.21	2-Bromo-lysergic acid N,N-diethylamide	2-Br-LSD, BOL-148
6.9.22	2-Oxo-3-hydroxy-LSD	
6.9.23	Lysergic acid 2,4-dimethylazetide	LSZ
6.9.24	Lysergic acid 2,4-dimethylazetide-D3	
6.9.25	Lysergol	
6.9.26	N-Pyrrolidyllysergamide	LPD-824
6.9.27	N-Morpholinyllysergamide	LSM-775

6.10	Related compounds	
6.10.1	Ergotamine	
6.10.2	Ergonovine	Ergometrine
6.10.3	Harmaline	
6.10.4	Harmine	
6.10.5	2-Me-1,2,3,4-tetrahydro-β-caroline	Ayahuasca component and DMT metabolite

7.0	Piperazines	
7.1	Benzylpiperazines	
7.1.1	Benzylpiperazine	BZP
7.1.2	Benzylpiperazine-D7	
7.1.3	Benzylpiperazine-D8	

Ref	Substance	Other names
7.1.4	1-Benzyl-2-methylpiperazine	
7.1.5	1-Benzyl-3-methylpiperazine	3-MBZP
7.1.6	1-Benzyl-4-methylpiperazine	MBZP
7.1.7	1-(4-Fluorobenzyl)piperazine	
7.1.8	1-Me-4-(4-fluorobenzyl)piperazine	
7.1.9	1-(3-Me-benzyl)piperazine	
7.1.10	1-(2,5-Dimethoxybenzyl)piperazine	2C-H BZP
7.1.11	1-(2,5-Dimethoxy-4-bromobenzyl)piperazine	2C-B-BZP
7.1.12	1-(2,3,4-Trimethoxybenzyl)piperazine	Trimetazidine
7.1.13	1,4-Bis-(4-fluorobenzyl)piperazine	
7.1.14	3-Hydroxybenzylpiperazine	m-HO-BZP
7.1.15	4-Hydroxybenzylpiperazine	p-HO-BZP
7.1.16	3,4-Methylenedioxobenzylpiperazine	1-Piperonylpiperazine
7.1.17	Difluoro-3,4-methylenedioxobenzylpiperazine	Difluoro on MDO carbon
7.1.18	1,4-Dibenzylpiperazine	N,N-Dibenzylpiperazine, DBZP
7.1.19	Benzoylpiperazine	
7.1.20	Benzoylpiperazine-D8	
7.1.21	2-Benzylpiperazine	2-BZP
7.1.22	1-Me-3-BZP	4-Me-2-BZP
7.1.23	Bucinnazines, AP-237 (analgesics with mu-opioid activity) - See Opioids section below	1-Butyroyl-4-cinnamylpiperazine

7.2	Phenylpiperazines	
7.2.1	Phenylpiperazine	
7.2.2	Phenylpiperazine-D4	
7.2.3	1-(3-Methylphenyl)piperazine	
7.2.4	1-(4-Methylphenyl)piperazine	
7.2.5	1-(2-Chlorophenyl)piperazine	oCPP
7.2.6	1-(3-Chlorophenyl)piperazine	mCPP
7.2.7	1-(3-Chlorophenyl)piperazine-D6	
7.2.8	1-(3-Chlorophenyl)piperazine-D8	
7.2.9	1-(4-Chlorophenyl)piperazine	pCPP
7.2.10	1-(2-Fluorophenyl)piperazine	
7.2.11	1-(3-Fluorophenyl)piperazine	
7.2.12	1-(4-Fluorophenyl)piperazine	
7.2.13	1-(4-Bromophenyl)piperazine	p-BPP
7.2.14	1-(2-Trifluoromethyl)phenylpiperazine	o-TFMPP
7.2.15	1-(3-Trifluoromethyl)phenylpiperazine	m-TFMPP
7.2.16	1-(4-Trifluoromethyl)phenylpiperazine	p-TFMPP
7.2.17	1-(2-Methoxyphenyl)piperazine	2-MeOPP
7.2.18	1-(2-Methoxyphenyl)piperazine-D8	
7.2.19	1-(3-Methoxyphenyl)piperazine	3-MeOPP
7.2.20	1-(4-Methoxyphenyl)piperazine	4-MeOPP
7.2.21	1-(2,3-Dichlorophenyl)piperazine	
7.2.22	1-(2-Chloro-3-Fluorophenyl)piperazine	
7.2.23	1-(3-Chloro-4-Fluorophenyl)piperazine	

Ref	Substance	Other names
7.2.24	2-(4-Fluorophenyl)piperazine	
7.2.25	2-(3-Trifluoromethylphenyl)piperazine	
8.0 Synthetic Cannabinoids		
8.1 Naphthoyl pyrroles		
8.1.1	1-Pentyl-3-naphthoylpyrrole	JWH-030
8.1.2	1-Hexyl-3-naphthoylpyrrole	JWH-031
8.1.3	1-Pentyl-5-phenyl-3-naphthoylpyrrole	JWH-145
8.1.4	1-Heptyl-5-phenyl-3-naphthoylpyrrole	JWH-146
8.1.5	1-Hexyl-5-phenyl-3-naphthoylpyrrole	JWH-147
8.1.6	1-Hexyl-5-phenyl-3-naphthoylpyrrole-D5	
8.1.7	1-Pentyl-2-methyl-3(4-methylnaphthoyl)pyrrole	JWH-149
8.1.8	1-Pentyl-5-(2-fluorophenyl)-3-naphthoylpvrrole	JWH-307
8.1.9	1-Pentyl-4-(2-fluorophenyl)-3-naphthoylpvrrole	JWH-307 3' isomer
8.1.10	1-Pentyl-5-(4-fluorophenyl)-3-nephthoylpvrrole	JWH-308
8.1.11	1-Pentyl-5-naphthyl-3-naphthoylpvrrole	JWH-309
8.1.12	1-Pentyl-5-(3-fluorophenyl)-3-naphthoylpvrrole	JWH-368
8.1.13	1-Pentyl-5-(2-chlorophenyl)-3-naphthoylpvrrole	JWH-369
8.1.14	1-Pentyl-5-(2-methylphenyl)-3-naphthoylpvrrole	JWH-370

	[2] Indene core	
8.2	Naphthyl indenes	
8.2.1	1-((3-Pentylindenylidene)methyl)naphthylene	JWH-176
[3] Indole core		
8.3 Naphthoyl indoles		
8.3.1	3-(1-Naphthoyl)indole	
8.3.2	1-Pentylindole	
8.3.3	1-(5-Fluoropentyl)indole	
8.3.4	1-Cyclohexylmethylindole	
8.3.5	1-Pentyl-2-methyl-3-(1-naphthoyl)indole	JWH-007
8.3.6	1-Pentyl-2-methyl-3-(1-naphthoyl)indole-D9	
8.3.7	1-(1-Methylhexyl)-2-methyl-3-(1-naphthoyl)indole	JWH-011
8.3.8	1-Propyl-2-methyl-3-(1-naphthoyl)indole	JWH-015
8.3.9	1-Propyl-2-methyl-3-(1-naphthoyl)indole-D7	
8.3.10	1-Butyl-2-methyl-3-(1-naphthoyl)indole	JWH-016
8.3.11	1-Butyl-2-methyl-3-(1-naphthoyl)indole-D9	
8.3.12	1-Pentyl-3-(1-naphthoyl)indole	JWH-018, AM-678
8.3.13	1-Pentyl-3-(1-naphthoyl)indole-D9	
8.3.14	1-Pentyl-3-(1-naphthoyl)indole-D11	
8.3.15	1-Pentyl-3-(2-naphthoyl)indole	JWH-018 2-naphthyl isomer
8.3.16	1-Pentyl-6-methoxy-3-(1-naphthoyl)indole	JWH-018 (6-methoxy homologue)

Ref	Substance	Other names
8.3.17	1-(1-Methylhexyl)-3-(1-naphthoyl)indole	JWH-018 (1-methylhexyl homologue)
8.3.18	1-Hexyl-3-(1-naphthoyl)indole	JWH-019
8.3.19	1-Hexyl-3-(1-naphthoyl)indole-D13	
8.3.20	1-(2-Fl-hexyl)-3-(1-naphthoyl)indole	JWH-019 2-Fl-hexyl isomer
8.3.21	1-(3-Fl-hexyl)-3-(1-naphthoyl)indole	JWH-019 3-Fl-hexyl isomer
8.3.22	1-(4-Fl-hexyl)-3-(1-naphthoyl)indole	JWH-019 4-Fl-hexyl isomer
8.3.23	1-(5-Fl-hexyl)-3-(1-naphthoyl)indole	JWH-019 5-Fl-hexyl isomer
8.3.24	1-(6-Fl-hexyl)-3-(1-naphthoyl)indole	JWH-019 6-Fl-hexyl isomer
8.3.25	1-Heptyl-3-(1-naphthoyl)indole	JWH-020
8.3.26	1-Naphthalenyl-(1-(4-pentan-1-yl)-1H-indole-3yl) methanone	JWH-022
8.3.27	1-Ethyl-3-(1-naphthoyl)indole	JWH-071
8.3.28	1-Propyl-3-(1-naphthoyl)indole	JWH-072
8.3.29	1-Propyl-3-(1-naphthoyl)indole-D7	
8.3.30	1-Butyl-3-(1-naphthoyl)indole	JWH-073
8.3.31	1-Butyl-3-(1-naphthoyl)indole-D7	
8.3.32	1-Butyl-3-(1-naphthoyl)indole-D9	
8.3.33	1-Butyl-3-(2-naphthoyl)indole	JWH-073 2-naphthyl isomer
8.3.34	1-Butyl-3-(6-methoxynaphthoyl)indole	JWH-073 (6-methoxy analogue)
8.3.35	1-(2-Methylbutyl)-(1-naphthoyl)indole	JWH-073 (2-methylbutyl analogue)
8.3.36	1-(3-Methylbutyl)-(1-naphthoyl)indole	JWH-073 (3-methylbutyl analogue)
8.3.37	1-Butyl-3-(1-(2-methyl)naphthoyl)indole	JWH-073 (2-methylnaphthoyl analogue)
8.3.38	1-Butyl-3-(1-(4-methyl)naphthoyl)indole	JWH-073 (4-methylnaphthoyl analogue)
8.3.39	1-Butyl-3-(4-methoxynaphthoyl)indole	JWH-080
8.3.40	1-Butyl-3-(4-methoxynaphthoyl)indole-D9	
8.3.41	1-Pentyl-3-(4-methoxynaphthoyl)indole	JWH-081
8.3.42	1-Pentyl-3-(4-methoxynaphthoyl)indole-D9	
8.3.43	1-Pentyl-3-(4-methoxynaphthoyl)indole-D11	
8.3.44	1-Pentyl-3-(2-methoxynaphthoyl)indole	JWH-081 2-methoxynaphthyl isomer
8.3.45	1-Pentyl-3-(3-methoxynaphthoyl)indole	JWH-081 3-methoxynaphthyl isomer
8.3.46	1-Pentyl-3-(5-methoxynaphthoyl)indole	JWH-081 5-methoxynaphthyl isomer
8.3.47	1-Pentyl-3-(6-methoxynaphthoyl)indole	JWH-166, JWH-081 6-methoxynaphthyl isomer
8.3.48	1-Pentyl-3-(7-methoxynaphthoyl)indole	JWH-081 7-methoxynaphthyl isomer
8.3.49	1-Pentyl-3-(8-methoxynaphthoyl)indole	JWH-081 8-methoxynaphthyl isomer
8.3.50	1-Pentyl-2-methyl-3-(4-methoxy-naphthoyl)indole	JWH-098
8.3.51	1-Pentyl-2-methyl-3-(4-methoxy-naphthoyl)indole-D9	
8.3.52	1-Pentyl-2-ethyl-3-(1-naphthoyl)indole	JWH-116
8.3.53	1-Pentyl-3-(4-methylnaphthoyl)indole	JWH-122
8.3.54	1-Pentyl-3-(4-methylnaphthoyl)indole-D9	
8.3.55	1-Pentyl-3-(4-methylnaphthoyl)indole-D11	
8.3.56	1-Pentyl-3-(2-methylnaphthoyl)indole	JWH-122(2-methylnaphthyl analogue)
8.3.57	1-Pentyl-3-(3-methylnaphthoyl)indole	JWH-122(3-methylnaphthyl analogue)
8.3.58	1-Pentyl-3-(5-methylnaphthoyl)indole	JWH-122(5-methylnaphthyl analogue)
8.3.59	1-Pentyl-3-(6-methylnaphthoyl)indole	JWH-122(6-methylnaphthyl analogue)
8.3.60	1-Pentyl-3-(7-methylnaphthoyl)indole	JWH-122(7-methylnaphthyl analogue)
8.3.61	1-Pentyl-3-(8-methylnaphthoyl)indole	JWH-122(8-methylnaphthyl analogue)
8.3.62	1-(Pent-4-enyl)-3-(4-methylnaphthoyl)indole	JWH-122 (4-pentenyl analogue)

Ref	Substance	Other names
8.3.63	1-(5F-Pentyl)-2-ethyl-3-(1-naphthoyl)indole	JWH-122 5-F analogue
8.3.64	1-(5Cl-Pentyl)-2-ethyl-3-(1-naphthoyl)indole	JWH-122 5-Cl analogue
8.3.65	1-(5Br-Pentyl)-2-ethyl-3-(1-naphthoyl)indole	JWH-122 5-Br analogue
8.3.66	1-(5I-Pentyl)-2-ethyl-3-(1-naphthoyl)indole	JWH-122 5-I analogue
8.3.67	(1-Propyl-1H-indol-3-yl)(4-propyl-1-naphthalenyl)-methanone	JWH-180
8.3.68	(1-Propyl-1H-indol-3-yl)(4-propyl-1-naphthalenyl)-methanone-D7	
8.3.69	(1-Propyl-2-methyl-1H-indol-3-yl)(4-propyl-1-naphthalenyl)-methanone	JWH-181
8.3.70	1-Pentyl-3-(4-propyl-1-naphthyl)indole	JWH-182
8.3.71	1-Pentyl-3-(4-methyl-1-naphthoyl)indole	JWH-184
8.3.72	1-(2-(4-Morpholinyl)ethyl)-3-(4-methyl-1-naphthoyl)indole	JWH-193
8.3.73	1-(2-(4-Morpholinyl)ethyl)-3-(4-methoxy-1-naphthoyl)indole	JWH-198
8.3.74	1-(2-(4-Morpholinyl)ethyl)-3-(1-naphthoyl)indole	JWH-200, WIN 55,225
8.3.75	1-(2-(4-Morpholinyl)ethyl)-3-(1-naphthoyl)indole-D4	
8.3.76	1-(2-(4-Morpholinyl)ethyl)-3-(1-naphthoyl)indole-D5	
8.3.77	1-(2-(4-Morpholinyl)ethyl)-3-(2-naphthoyl)indole	JWH-200 2-naphthyl isomer
8.3.78	1-Pentyl-3-(4-ethyl-naphthoyl)indole	JWH-210
8.3.79	1-Pentyl-3-(4-ethyl-naphthoyl)indole-D9	
8.3.80	1-Pentyl-3-(4-ethyl-naphthoyl)indole-D11	
8.3.81	1-Pentyl-3-(2-ethyl-naphthoyl)indole	JWH-210 2-ethylnaphthyl isomer
8.3.82	1-Pentyl-3-(3-ethyl-naphthoyl)indole	JWH-210 3-ethylnaphthyl isomer
8.3.83	1-Pentyl-3-(5-ethyl-naphthoyl)indole	JWH-210 5-ethylnaphthyl isomer
8.3.84	1-Pentyl-3-(6-ethyl-naphthoyl)indole	JWH-210 6-ethylnaphthyl isomer
8.3.85	1-Pentyl-3-(7-ethyl-naphthoyl)indole	JWH-210 7-ethylnaphthyl isomer
8.3.86	1-Pentyl-3-(8-ethyl-naphthoyl)indole	JWH-210 8-ethylnaphthyl isomer
8.3.87	1-(5-Fluoropentyl)-3-(4-ethylnaphthoyl)indole	5-Fluoro JWH-210 , EAM2201
8.3.88	1-Pentyl-2-methyl-3-(4-ethyl-naphthoyl)indole	JWH-213
8.3.89	1-Pentyl-3-(4-bromonaphthoyl)indole	JWH-387
8.3.90	1-Pentyl-3-(4-chloronaphthoyl)indole	JWH-398
8.3.91	1-Pentyl-3-(4-chloronaphthoyl)indole-D9	
8.3.92	1-Pentyl-3-(4-chloronaphthoyl)indole-D11	
8.3.93	1-Pentyl-3-(2-chloronaphthoyl)indole	JWH-398 2-chloronaphthyl isomer
8.3.94	1-Pentyl-3-(3-chloronaphthoyl)indole	JWH-398 3-chloronaphthyl isomer
8.3.95	1-Pentyl-3-(5-chloronaphthoyl)indole	JWH-398 5-chloronaphthyl isomer
8.3.96	1-Pentyl-3-(6-chloronaphthoyl)indole	JWH-398 6-chloronaphthyl isomer
8.3.97	1-Pentyl-3-(7-chloronaphthoyl)indole	JWH-398 7-chloronaphthyl isomer
8.3.98	1-Pentyl-3-(8-chloronaphthoyl)indole	JWH-398 8-chloronaphthyl isomer
8.3.99	1-Pentyl-3-(4-fluoronaphthoyl)indole	JWH-412
8.3.100	1-Pentyl-3-(8-bromonaphthoyl)indole	JWH-424
8.3.101	(1-Methylpiperidin-2-yl)methyl homologue of JWH-018	AM1220
8.3.102	(1-Methylpiperidinyl)methyl homologue of JWH-018-D5	
8.3.103	(1-Methylazepen-3-yl)methyl homologue of JWH-018	AM1220 azepane isomer
8.3.104	1-(5-Fluoropentyl)-3-naphthoyl-6-nitroindole	AM1235
8.3.105	(1-Methylpiperidin-2-yl)-3-(2-iodo-4-nitrobenzoyl)indole (CB2 agonist)	AM-1241
8.3.106	1-(5-Fluoropentyl)-3-(1-naphthoyl)indole	AM2201
8.3.107	1-(5-Fluoropentyl)-3-(1-naphthoyl)indole-D4	
8.3.108	1-(5-Fluoropentyl)-3-(1-naphthoyl)indole-D5	

Ref	Substance	Other names
8.3.109	1-(5-Fluoropentyl)-3-(2-naphthoyl)indole	AM2201 (2-naphthyl homologue)
8.3.110	1-(3-Chloropentyl)-3-(1-naphthoyl)indole	AM2201 (3-chloro homologue)
8.3.111	1-(5-Chloropentyl)-3-(1-naphthoyl)indole	AM2201 (5-chloro homologue)
8.3.112	1-(5-Fluoropentyl)-3-(4-Methoxynaphthyl)indole	AM2201 (4-methoxy homologue)
8.3.113	[1-(5-Fluoropentyl)-1H-indol-3-yl](4-methyl-1-naphthalenyl)-methanone	MAM-2201
8.3.114	[1-(5-Fluoropentyl)-1H-indol-3-yl](4-methyl-1-naphthalenyl)-methanone-D5	
8.3.115	[1-(2-Fluoropentyl)-1H-indol-3-yl](4-methyl-1-naphthalenyl)-methanone	MAM-2201 2-Fluoroisomer
8.3.116	[1-(3-Fluoropentyl)-1H-indol-3-yl](4-methyl-1-naphthalenyl)-methanone	MAM-2201 3-Fluoroisomer
8.3.117	[1-(4-Fluoropentyl)-1H-indol-3-yl](4-methyl-1-naphthalenyl)-methanone	MAM-2201 4-Fluoroisomer
8.3.118	[1-(5-Chloropentyl)-1H-indol-3-yl](4-methyl-1-naphthalenyl)-methanone	MAM-2201 5-Chloro analogue
8.3.119	1-(5-Fluoropentyl)-1H-indol-3-yl](4-ethyl-1-naphthalenyl)-methanone	EAM-2201
8.3.120	1-(5-Fluoropentyl)-1H-indol-3-yl](4-fluoro-1-naphthalenyl)-methanone	
8.3.121	1-(5-Fluoropentyl)-1H-indol-3-yl](4-chloro-1-naphthalenyl)-methanone	5F-JWH-398, CI-2201
8.3.122	1-(4-Cyanobutyl)-3-(naphthyl-1-oyl)indole	AM2232, SGT-18
8.3.123	1-(4-Fluorobenzyl)-1H-indol-3-yl-(1-naphthalenyl)-methanone	FUB-JWH-018
8.3.124	1-(4-Fluorobenzyl)-1H-indol-3-yl-(1-naphthalenyl)-methanone-D5	
8.3.125	1-(Cyclohexylmethyl)-1H-indol-3-yl-(1-naphthalenyl)-methanone	NE-CHMIMO
8.3.126	1-(Cyclohexylmethyl)-1H-indol-3-yl-(4-Me-1-naphthalenyl)-methanone	CHM-122, CHM-JWH-122

8.4	Naphthyl methyl indoles	
8.4.1	1-Pentyl-3-(1-naphthylmethyl)indole	JWH-175
8.4.2	1-Pentyl-3-(1-naphthylmethyl)indole-D11	

8.5	Phenylacetyl indoles	
8.5.1	1-Pentyl-3-(phenylacetyl)indole	JWH-167
8.5.2	1-Pentyl-3-(4-methoxyphenylacetyl)indole	JWH-201
8.5.3	1-Pentyl-3-(4-methoxyphenylacetyl)indole-D11	
8.5.4	1-Pentyl-3-(2-chlorophenylacetyl)indole	JWH-203
8.5.5	1-Pentyl-3-(2-chlorophenylacetyl)indole-D11	
8.5.6	1-Pentyl-3-(3-chlorophenylacetyl)indole	JWH-203 3-chlorophenyl isomer
8.5.7	1-Pentyl-3-(4-chlorophenylacetyl)indole	JWH-203 4-chlorophenyl isomer

8.6	Naphthylacetyl indoles	
8.6.1	1-Me-3-(naphthalen-1-ylacetyl)indole	NAMIE
8.6.2	1-Butyl-7-MeO-3-(naphthalen-1-ylacetyl)indole	7'-MeO-NABuTIE
8.6.3	1-Pentyl-3-(naphthalen-1-ylacetyl)indole	NAPIE

8.7	Azetidinoyl indoles	
8.7.1	Azetidin-1-yl-1(1-(4-Flbzenyl)indol-1-yl methanone	AZE-FUBICA, AZE-FUBIM

8.8	Benzoyl indoles	
8.8.1	1-Pentyl-3-(2-iodobenzoyl)indole	AM679
8.8.2	1-(5-Fluoropentyl)-3-(2-iodobenzoyl)indole	AM694
8.8.3	1-(5-Fluoropentyl)-3-(3-iodobenzoyl)indole	AM694 3-Iodo isomer

Ref	Substance	Other names
8.8.4	1-(5-Fluoropentyl)-3-(4-iodobenzoyl)indole	AM694 4-Iodo isomer
8.8.5	1-(N-Methyl-2-piperidinyl)methyl-3-(2-iodobenzoyl)indole	AM2233
8.8.6	1-(N-Methyl-2-piperidinyl)methyl-3-(2-iodobenzoyl)indole-D5	
8.8.7	1-Butyl-3-(4-methoxybenzoyl)indole	RCS-4 (C4 homologue)
8.8.8	1-Pentyl-3-(4-methoxybenzoyl)indole	RCS-4
8.8.9	1-Pentyl-3-(4-methoxybenzoyl)indole-D9	
8.8.10	1-Pentyl-3-(4-methoxybenzoyl)indole-D11	
8.8.11	1-Pentyl-3-(2-methoxybenzoyl)indole	RCS-4(2-methoxy homologue)
8.8.12	1-Pentyl-3-(3-methoxybenzoyl)indole	RCS-4(3-methoxy homologue)

8.9	Pyrrolidinoyl indoles	
8.9.1	1-(5-Fluoropentyl)-3-pyrrolidine-1-carbonylindole	5F-PY-PICA

8.10	Pyridinoyl indoles	
8.10.1	5-Fluoropentyl-3-pyridinoylindole	

8.11	Piperidinoyl indoles	
8.11.1	1-(5-Fluoropentyl)-4-benzylpiperazin-1-ylindane methanone	5F-BEPIRAPIM, NNL2
8.12	Adamantoyl indoles	
8.12.1	Adamantyl(1-pentylindol-3-yl)methanone	AB-001
8.12.2	Adamantyl(1-(5-fluropentyl)indol-3-yl)methanone	5-FI AB001
8.12.3	1-[(N-Methylpiperidin-2-yl)methyl]-3-(adamant-1-oyl)indole	AM1248
8.12.4	1-(N-Methylazepan-3-yl)-3-(adamant-1-oyl)indole	AM1248 azepane isomer
8.13	Tetramethylcyclopropyl indoles	
8.13.1	(1H-Indol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	
8.13.2	1-(Pentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144
8.13.3	1-(Pentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone-D4	
8.13.4	1-(Pentylindol-3-yl)-(3,3,4-trimethylpentenyl)methanone	(= UR-144 GC-MS degradation product)
8.13.5	1-(Pent-4-enylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 (N-pentenyl analogue)
8.13.6	1-(5-Fluoropentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	5FUR-144, XLR-11
8.13.7	1-(5-Fluoropentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone-D5	
8.13.8	1-(5-FI-Pentylindol-3-yl)-(3,3,4-trimethylpentenyl)methanone	(= XLR11 GC-MS degradation product)
8.13.9	1-(5-Fluorobutylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	XLR-12
8.13.10	1-(5-Bromopentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 (5-bromopentyl analogue)
8.13.11	1-(5-Methylheptylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 (N-(5-methylheptyl) analogue)
8.13.12	1-(Heptylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 (N-heptyl analogue)
8.13.13	1-(2-Chloropentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 N-(2-chloropentyl) analogue
8.13.14	1-(3-Chloropentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 N-(3-chloropentyl) analogue
8.13.15	1-(5-Chloropentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 N-(4-chloropentyl) analogue
8.13.16	1-(5-Chloropentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	UR-144 N-(5-chloropentyl) analogue
8.13.17	1-(5-Pentyl-2-Me-indol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	M-144
8.13.18	1-(4-Fluorobenzyl)-(2,2,3,3-tetramethylcyclopropyl)methanone	FUB-144
8.13.20	1-(Methyltetrahydropyran-4-ylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	A834,735
8.13.21	1-(2-(4-Morpholinyl)ethyl)-(2,2,3,3-tetramethylcyclopropyl)methanone	A796,260

Ref	Substance	Other names
8.13.22	1-(1-Methyl-2-piperidinyl)-(2,2,3,3-tetramethylcyclopropyl)methanone	AB-005
8.13.23	1-(1-Methyl-2-azepanyl)-(2,2,3,3-tetramethylcyclopropyl)methanone	AB-005 azepane homologue
8.14	3,4,4-Trimethyl-pent-2-en-1-one indoles	
8.14.1	3,4,4-Trimethyl-1-(1-(2-morpholinoethyl)-1H-indol-3-yl)pent-2-en-1-one)	JWH-200 analogue 1
8.15	Indole carboxamides	
8.15.1	N-(Methylcyclopropyl)-1-(5F-pentyl)indole carboxamide	5F-CYPPICA
8.15.2	N-Phenyl-1-pentylindol-3-carboxamide	Phenyl PICA; SDB-006 N-Phenyl analogue
8.15.3	N-Phenyl-1-(5F-pentyl)indol-3-carboxamide	5-F-Phenyl PICA, LTI-701
8.15.4	N-Benzyl-1-pentylindol-3-carboxamide	SDB-006
8.15.5	N-Benzyl-1-(5Fl-pentyl)indol-3-carboxamide	5F-SDB-006
8.15.6	N-(1-Naphthalenyl)-1-pentylindol-3-carboxamide	NNE1, MN-24
8.15.7	N-(2-Naphthalenyl)-1-pentylindol-3-carboxamide	NNE1 2-naphthyl isomer
8.15.8	N-(1-Naphthalenyl)-1-(2-fluoropentyl)indol-3-carboxamide	2-FI NNE1, 2-FI MN-24
8.15.9	N-(1-Naphthalenyl)-1-(3-fluoropentyl)indol-3-carboxamide	3-FI NNE1, 3-FI MN-24
8.15.10	N-(1-Naphthalenyl)-1-(4-fluoropentyl)indol-3-carboxamide	4-FI NNE1, 4-FI MN-24
8.15.11	N-(1-Naphthalenyl)-1-(5-fluoropentyl)indol-3-carboxamide	5-FI NNE1, 5-FI MN-24
8.15.12	N-(2-Naphthalenyl)-1-(5-fluoropentyl)indol-3-carboxamide	5-FI NNE1 2-naphthyl isomer
8.15.13	N-(1-Naphthalenyl)-1-(5-Cl-pentyl)indol-3-carboxamide	5-C-NNE1
8.15.14	N-(1-Naphthalenyl)-1-(4-Fl-benzyl)indol-3-carboxamide	FDU-NNE1
8.15.15	N-Adamantyl-1-pentylindol-3-carboxamide	APICA, 2NE1, SDB-001
8.15.16	N-Adamantyl-1-(5-fluoropentyl)indol-3-carboxamide	5FI APICA, STS-135, 2NE2
8.15.17	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4F-butyl)indole-3-carboxamide	4F-MDMB-BUTICA
8.15.18	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4Cl-butyl)indole-3-carboxamide	4-Cl-MDMB-BUTICA
8.15.19	N-(1-EtO-3-methyl-1-oxobutan-2-yl)-1-(4F-butyl)indole-3-carboxamide	4F-EMB-BUTICA
8.15.20	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(4-CN-butyl)indole-3-carboxamide	4CN-AB-BUTICA
8.15.21	N-(1-Amino-3-methyl)-1-oxobutan-2-yl-1-(5-Fl-pentyl)indole-3-carboxamide	5-FI-ABICA
8.15.22	(R)-N-(1-Amino-3-methyl)-1-oxobutan-2-yl-1-(pent-4-enyl)indole-3-carboxamide	(R)-AB-4en-PICA
8.15.23	(S)-N-(1-Amino-3-methyl)-1-oxobutan-2-yl-1-(pent-4-enyl)indole-3-carboxamide	(S)-AB-4en-PICA
8.15.24	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-pentylindole-3-carboxamide	ADBICA, ADB-PICA
8.15.25	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-pentylindole-3-carboxamide-D9	
8.15.26	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-(5F-pentyl)indole-3-carboxamide	5-FI ADBICA
8.15.27	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-(pent-4-enyl)indole-3-carboxamide	ADB-4en-PICA
8.15.28	N-(1-MeO-3-Me-1-oxobutan-2-yl)-1-pentylindole-3-carboxamide	MMB-PICA; MMB-018; AMB-PICA
8.15.29	N-(1-MeO-3-Me-1-oxobutan-2-yl)-1-pent-4-enylindole-3-carboxamide	MMB-4en-PICA, MMB022
8.15.30	N-(1-MeO-3-Me-1-oxobutan-2-yl)-1-(5F-pentyl)indole-3-carboxamide	5F-MMB-PICA, MMB-2201, I-AMB
8.15.31	N-(1-MeO-3-Me-1-oxobutan-2-yl)-1-(5Cl-pentyl)indole-3-carboxamide	5CI-AMB-PICA
8.15.32	N-(1-MeO-3-Me-1-oxobutan-2-yl)-1-(5Br-pentyl)indole-3-carboxamide	5Br-MMB-PICA
8.15.33	N-(1-EtO-3-Me-1-oxobutan-2-yl)-1-(5F-pentyl)indole-3-carboxamide	5F-EMB-PICA
8.15.34	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-indole-3-carboxamide	MDMB-ICA
8.15.35	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-penten-1-yl)indole-3-carboxamide	MDMB-4-en-PICA
8.15.36	(R)-N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-penten-1-yl)indole-3-carboxamide	(R)-MDMB-4en-PICA
8.15.37	(S)-N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-penten-1-yl)indole-3-carboxamide	(S)-MDMB-4en-PICA
8.15.38	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(5F-pentyl)indole-3-carboxamide	5F-MDMB-PICA
8.15.39	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(5F-pentyl)indole-3-carboxamide-D5	

Ref	Substance	Other names
8.15.40	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(5Cl-pentyl)indole-3-carboxamide	5CI-MDMB-PICA
8.15.41	N-(1-EtO-3,3-dimethyl-1-oxobutan-2-yl)-1-(5F-pentyl)indole-3-carboxamide	5F-EMDB-PICA
8.15.42	N-(1-Amino-1-oxo-3-phenylpropan-2-yl)-1-pentylindole-3-carboxamide	APP-PICA
8.15.43	N-(1-Amino-1-oxo-3-phenylpropan-2-yl)-1-(5-F-pentyl)indole-3-carboxamide	5F-APP-PICA, PX-1
8.15.44	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-cyclohexylmethylindole carboxamide	AB-CHMICA
8.15.45	N-(1-Methoxy-3-methyl)-1-oxobutan-2-yl)-1-cyclohexylmethylindole carboxamide	MMB-CHMICA; AMB-CHMICA
8.15.46	N-(1-Methoxy)-1-oxopentan-2-yl)-1-cyclohexylmethylindole carboxamide	MEP-CHMICA
8.15.47	N-(1-Methoxy-3,3-dimethyl)-1-oxobutan-2-yl-1-cyclohexylmethylindole carboxamide	MDMB-CHMICA
8.15.48	N-(1-Amino-3-methyl)-1-oxobutan-2-yl-1-benzylindole carboxamide	AB-BICA
8.15.49	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-benzylindole carboxamide	ADB-BICA
8.15.50	N-(1-Methoxy-3,3-dimethyl-1-oxobutan-2-yl)-1-benzylindole carboxamide	MDMB-BENZICA
8.15.51	N-(1-Amino-3-methyl)-1-oxobutan-2-yl-1-(4-F-benzyl)indole carboxamide	AB-FUBICA
8.15.52	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-(4-F-benzyl)indole carboxamide	ADB-FUBICA
8.15.53	N-(1-Methoxy-3-methyl)-1-oxobutan-2-yl-1-(4-F-benzyl)indole carboxamide	MMB-FUBICA
8.15.54	N-(1-Methoxy-3,3-dimethyl)-1-oxobutan-2-yl-1-(4-F-benzyl)indole carboxamide	MDMB-FUBICA
8.15.55	N-(1-Methoxy-1-oxopentan-2-yl)-1-(4-F-benzyl)indole carboxamide	MEP-FUBICA, MMB-FUBICA isomer 1
8.15.56	N-(1-Phenyl-butan-2-yl)-1-(4-F-benzyl)indole carboxamide	Ethylphenyl-FUBICA
8.15.57	N-Fenethyl-1-(2-morpholinoethyl)-7-MeO-indole-3-carboxamide	MN-25
8.15.58	N-Fenethyl-1-(2-morpholinoethyl)-2-Me-7-MeO-indole-3-carboxamide	2-Me MN-25
8.15.59	N-(Quinolin-8-yl)-1-pentyl-indole-3-carboxamide	JWH-018 Quinolinyl carboxamide
8.15.60	N-(Quinolin-8-yl)-1-(5-Fl-pentyl)-indole-3-carboxamide	AM2201 Quinolinyl carboxamide
8.15.61	N-(1-Methyl-1-phenylethyl)-1-pentylindol-3-carboxamide	Cumyl-PICA
8.15.62	N-(1-Methyl-1-phenylethyl)-1-(5-fluoropentyl)indol-3-carboxamide	5-FI Cumyl-PICA
8.15.63	N-(1-Methyl-1-(4Cl-phenyl)ethyl)-1-pentylindol-3-carboxamide	(4-Cl Cumyl)-PICA, SGT-157
8.15.64	N-(1-Methyl-1-(4F-phenyl)ethyl)-1-(5-fluoropentyl)indol-3-carboxamide	(4F-Cumyl)-5F-PICA, SGT-64
8.15.65	N-(1-Phenyl-methyl propanoate)-1-pentyl-indol-3-carboxamide	MPP-PICA
8.15.66	N-(1-Phenyl-methyl propanoate)-1-(5-fluoropentyl)indol-3-carboxamide	5F-MPP-PICA, MPHP-2201
8.15.67	N-(1-Phenyl-propyl)-1-(5-fluoropentyl)indol-3-carboxamide	5F-Ethylbenzyl-PICA
8.15.68	N-Cumyl-1-(cyclobutylmethyl)indol-3-carboxamide	Cumyl-CBMICA
8.15.69	N-Cumyl-1(norbornylmethyl)indol-3-carboxamide	Cumyl-NBMICA

Ref	Indole carboxylates
8.16.1	Methyl 1-pentylindole-3-carboxylate
8.16.2	Methyl 1-(5-fluoropentyl)indole-3-carboxylate
8.16.3	Methyl 1-(cyclohexylmethyl)indole-3-carboxylate
8.16.4	Naphthalenyl-1-pentyl-3-carboxylate
8.16.5	Naphthalenyl-1-(5-fluoropentyl)indole-3-carboxylate
8.16.6	Naphthalenyl-1-(4-fluorobenzyl)indole-3-carboxylate

Ref	Quinolinyl indole carboxylates
8.17.1	Quinolin-8-yl-1-pentyl-1H-indole-3-carboxylate
8.17.2	Quinolin-8-yl-1-pentyl-1H-indole-3-carboxylate-D9
8.17.3	Quinolin-8-yl-1-pentyl-1H-indole-3-carboxylate-D11
8.17.4	PB-22 3-quinolinyl isomer
8.17.5	PB-22 4-quinolinyl isomer

Ref	Substance	Other names
8.17.6		PB-22 5-quinolyl isomer
8.17.7		PB-22 6-quinolyl isomer
8.17.8		PB-22 7-quinolyl isomer
8.17.9		PB-22 6-hydroxyquinolyl isomer
8.17.10		PB-22 5-hydroxyisoquinolyl isomer
8.17.11		PB-22 6-hydroxyisoquinolyl isomer
8.17.12		PB-22 7-hydroxyisoquinolyl isomer
8.17.13		PB-22 8-hydroxyisoquinolyl isomer
8.17.14	Quinolin-8-yl-1-(5-fluoropentyl)-1H-indole-3-carboxylate	5-Fluoro PB-22
8.17.15		5-Fluoro PB-22 3-HOquinoline isomer
8.17.16		5-Fluoro PB-22 4-HOquinoline isomer
8.17.17		5-Fluoro PB-22 5-HOquinoline isomer
8.17.18		5-Fluoro PB-22 6-HOquinoline isomer
8.17.19		5-Fluoro PB-22 7-HOquinoline isomer
8.17.20		5-FI PB-22 4-HOisoquinoline
8.17.21		5-FI PB-22 5-HOisoquinoline
8.17.22		5-FI PB-22 6-HOisoquinoline
8.17.23		5-FI PB-22 7-HOisoquinoline
8.17.24		5-FI PB-22 8-HOisoquinoline
8.17.25		5-Fluoropentyl PB-22 (2-FI isomer)
8.17.26		5-Fluoropentyl PB-22 (3-FI isomer)
8.17.27		5-Fluoropentyl PB-22 (4-FI isomer)
8.17.28	Quinolin-8-yl-1-(4-fluorobenzyl)-1H-indole-3-carboxylate	FUB-PB-22
8.17.29	Quinolin-8-yl-1-cyclohexylmethyl-1H-indole-3-carboxylate	BB-22, QUCHIC
8.17.30		BB-22 3-quinolyl isomer
8.17.31		BB-22 4-quinolyl isomer
8.17.32		BB-22 5-quinolyl isomer
8.17.33		BB-22 6-quinolyl isomer
8.17.34		BB-22 7-quinolyl isomer
8.17.35		BB-22 4-hydroxyisoquinolyl isomer
8.17.36		BB-22 5-hydroxyisoquinolyl isomer
8.17.37		BB-22 7-hydroxyisoquinolyl isomer
8.17.38		BB-22 8-hydroxyisoquinolyl isomer

8.18	Pyridinoyl indoles	
8.18.1	5-Fluoropentyl-3-pyridinoylindole	

8.19	Piperidinyl indole carboxamides	
8.19.1	(4-Methylpiperidin-1-yl)-1-pentylindole carboxide	MEPIRAPIM

8.20	Thiazole indoles	
8.20.1	N-Pentyl-3-thiazole-indole analogue 1 (Me(DiEthAmino) on thiazole)	PTI-1
8.20.2	N-Pentyl-3-thiazole-indole analogue 2 (Me(iPr,MeOEthAmino) on thiazole)	PTI-2
8.20.3	N-(6F-Pentyl)-3-thiazol-4-yl indole (Me(Me, MeOEthAmino) on thiazole)	PTI-3

Ref	Substance	Other names
	[3A] Indole core with acetamido linker	
8.20.4	1-(4-fluorobenzyl)indole-3-acetic acid	FUBIAT (no linked group - unreacted precursor?)
8.20.5	N-Cyclohexyl-indole-3-acetamide	CH-IATA (no tail)
8.20.6	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-indol-3-acetamide	ADB-IATA, ADB-IACA (no tail)
8.20.7	N-Cyclohexyl-2(1-pentylindol-3-yl)acetamide	CH-PIACA, CHX-PIATA
8.20.8	N-Cyclohexyl-2(1-hexylindol-3-yl)acetamide	CH-HEXIATA
8.20.9	N-(l-Amino-3-methyl-1-oxobutan-2-yl)-1-(cyclohexylmethyl)indol-3-acetamide	AB-CHMIATA
8.20.10	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-fluorobenzyl)indol-3-acetamide	ADB-FUBIATA
8.20.11		(R)-ADB-FUBIATA
8.20.12	N-Cyclohexyl-1-(4-fluorobenzyl)indol-3-acetamide	CH-FUBIATA
8.20.13	N-Methylcyclohexyl-1-(4-fluorobenzyl)indol-3-acetamide	CHM-FUBIATA
8.20.14	N-Adamantyl-1-(4-fluorobenzyl)indol-3-acetamide	AFUBIATA

8.21	[4] Indazole core	
8.21	Naphthoyl indazoles	
8.21.1	1-Naphthalenyl(1-pentyl-1-H-indazol-3-yl)methanone	THJ 018, JWH-018 indazole analogue
8.21.2	1-(4-MeO-naphthalenyl)(1-pentyl-1-H-indazol-3-yl)methanone	THJ-081, SGT-035
8.21.3	1-Naphthalenyl(1-(5-FI-pentyl)-1-H-indazol-3-yl)methanone	THJ 2201, AM-2201 indazole analogue
8.21.4	1-Naphthalenyl(1-(5-Cl-pentyl)-1-H-indazol-3-yl)methanone	5-Cl-THJ-018
8.21.5	1-Naphthalenyl(1-(5-Br-pentyl)-1-H-indazol-3-yl)methanone	5-Br-THJ-018

8.22	Tetramethylcyclopropyl indazoles	
8.22.1	1-(5-Fluoropentylindazol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone	FAB-144
8.23	Indazole carboxamides	
8.23.1	5-Bromo-indazole carboxamide	5-Br-INACA (no tail or linked group)
8.23.2	N-(3-methylbutanoate)-5-bromo-indazole carboxamide	MMB-5B-INACA (no tail structure)
8.23.3	N-(3,3-dimethylbutanoate)-5-bromo-indazole carboxide	MDMB-5Br-INACA (no tail structure)
8.23.4	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-indazole carboxide	ADB-INACA (no tail)
8.23.5	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-5-bromo-indazole carboxide	ADB-5Br-INACA (no tail structure)
8.23.6	ADB-5'Br-EZO-CA	ADB-5Br-INACA with carboxamide between indazole N's
8.23.7	N-(1-Me-1-phenethyl)-1H-indazole-3-carboxamide	Cumyl-INACA (no tail structure)
8.23.8	N-(1-Naphthalenyl)-1-pentylindazole-3-carboxamide	MN-18
8.23.9	N-(1-Naphthalenyl)-2-pentylindazole-3-carboxamide	MN-18 2-indazole isomer
8.23.10	N-(1-Naphthalenyl)-1-(5-fluoropentyl)indazole-3-carboxamide	5-FI-MN-18
8.23.11		
8.23.12	N-Adamantyl-1-(4F-butyl)indazole-3-carboxamide	4F-ABUTINACA
8.23.13	N-Adamantyl-1-pentylindazole-3-carboxamide	AKB-48, APINACA
8.23.14	N-Adamantyl-1-pentylindazole-3-carboxamide-D9	
8.23.15	N-Adamantyl-1-pentylindazole-3-carboxamide-D11	
8.23.16	N-Adamantyl-1-(5-fluoropentyl)indazole-3-carboxamide	5-F AKB48, 5-F APINACA
8.23.17	N-Adamantyl-1-(5-chloropentyl)indazole-3-carboxamide	5-Cl AKB48, 5-Cl APINACA
8.23.18	N-Adamantyl-1-(5-bromopentyl)indazole-3-carboxamide	5-Br AKB48, 5-Br APINACA
8.23.19	N-Adamantyl-1-(4-fluorobenzyl)indazole-3-carboxamide	FUB-APINACA, AKB-48 4-FI benzyl analogue
8.23.20	N-Adamantyl-1-cyclohexylmethylindazole-3-carboxamide	ACHMINACA

Ref	Substance	Other names
8.23.21	N-Adamant-1-yl -1-tetrahydropyranylindazole-3-carboxamide	ATHPINACA, Adamant-1-yl THPINACA
8.23.22	N-Adamant-2-yl -1-tetrahydropyranylindazole-3-carboxamide	ATHPINACA, Adamant-2-yl THPINACA
8.23.23	N-(1-Adamantyl)-1-[(tetrahydropyran-4-yl)methyl]-1H-indazole-3-carboxamide	Adamant-1-yl-THPINACA isomer 1
8.23.24	N-(2-Adamantyl)-1-[(tetrahydropyran-4-yl)methyl]-1H-indazole-3-carboxamide	Adamant-2-yl-THPINACA isomer 2
8.23.25	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(pentyl-1H-indazole)-3-carboxamide	AB-PINACA
8.23.26	AB-PINACA-D9	AB-PINACA-D9
8.23.27	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(2-fluoropentyl-1H-indazole)-3-carboxamide	2-FI-AB-PINACA
8.23.28	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(3-fluoropentyl-1H-indazole)-3-carboxamide	3-FI-AB-PINACA
8.23.29	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(4-fluoropentyl-1H-indazole)-3-carboxamide	4-FI AB-PINACA
8.23.30	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(5-fluoropentyl-1H-indazole)-3-carboxamide	5-FI AB-PINACA
8.23.31	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(5-chloropentyl-1H-indazole)-3-carboxamide	5-Cl AB-PINACA
8.23.32	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(pent-4-ene-1-yl-1H-indazole)-3-carboxamide	AB-4en-PINACA
8.23.33	N-(1-Amino-1-oxopentan-2-yl)-1-(pentyl-1H-indazole)-3-carboxamide	AEP-PINACA
8.23.34	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-indazole-3-carboxamide	ADB-INACA (no tail)
8.23.35	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-1-pentylindazole-3-carboxamide	ADB-PINACA
8.23.36	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-1-pentylindazole-3-carboxamide-D9	ADB-PINACA-D9
8.23.37	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-1-(5 FI pentyl)indazole-3-carboxamide	5F-ADB-PINACA
8.23.38	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-1-pentyl-5Br-indazole-3-carboxamide	ADB-5'Br-PINACA
8.23.39	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-1-(5F-pentyl)-5Br-indazole-3-carboxamide	5F-ADB-5'Br-PINACA
8.23.40	N-((1-Amino-2,3-dimethyl-1-oxobutan-2-yl)-1-pentylindazole-3-carboxamide	ADB-PINACA Isomer 1
8.23.41	N-(1-Amino-3-methyl-1-oxopentan-2-yl)-1-pentylindazole-3-carboxamide	ADB-PINACA Isomer 2
8.23.42	N-(1-Amino-3-methyl-1-oxopentan-2-yl)-1-(5F-pentyl)indazole-3-carboxamide	5-Fluoro-ADB-PINACA Isomer 2
8.23.43	N-(1-Amino-4-methyl-1-oxopentan-2-yl)-1-pentylindazole-3-carboxamide	ADB-PINACA Isomer 4
8.23.44	N-(1-Amino-1-oxohexan-2-yl)-1-pentylindazole-3-carboxamide	ADB-PINACA Isomer 3
8.23.45	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-1-(pent-4-ene-1-yl)indazole-3-carboxamide	ADB-4en-PINACA
8.23.46	N-((1-Amino-3,3-diMe)-1-oxobutan-2-yl)-1-(pent-4-ene-1-yl)-5Br-indazole-3-carboxamide	ADB-5'Br-4en-PINACA
8.23.47	N-((1-Amino-3,3-dimethyl)-1-oxobutan-2-yl)-1-decyl-5Br-indazole-3-carboxamide	ADB-DECINACA
8.23.48	[N-(4-Fluorobenzyl) analogue of AB-PINACA]-D4	AB-FUBINACA-D4
8.23.49	[N-(3-Fluorobenzyl) analogue of AB-PINACA]	3-FI-benzyl isomer of AB-FUBINACA
8.23.50	N-(1-amino-1-oxobutan-2-yl)-2-(4-FI-benzyl)indazole carboxamide	AB-FUBINACA 2'-indazole isomer
8.23.51	N-Me-N-(1-amino-1-oxobutan-2-yl)-1-(4-FI-benzyl)indazole carboxamide	N-Me AB-FUBINACA, AB-FUBINACA isomer 5
8.23.52	N-(1-amino-1-oxopentan-2-yl)-1-(4-FI-benzyl)indazole carboxamide	AB-FUBINACA isomer 1, AB-FUBINACA n-Butyl isomer
8.23.53	N-(1-amino-1-oxopentan-2-yl)-1-(2-FI-benzyl)indazole carboxamide	
8.23.54	N-(1-amino-1-oxopentan-2-yl)-1-(3-FI-benzyl)indazole carboxamide	
8.23.55	Indazole-3-carboxamide-3-Me-methylbutanoate	MMB-INACA
8.23.56	2-(1-Pentylindazole)-3-carboxamide-3-Me-methylbutanoate	AMB; MMB-PINACA; MMB-PINACA
8.23.57	2-(1-Penten-4-ylindazole)-3-carboxamide-3-Me-methylbutanoate	MMB-4en-PINACA
8.23.58	2-(1-(3-Fluoropentyl)indazole)-3-carboxamide-3-Me-methylbutanoate	3-FI-AMB, 3-F-MMB-PINACA
8.23.59	2-(1-(4-Fluoropentyl)indazole)-3-carboxamide-3-Me-methylbutanoate	4-FI-AMB, 4-F-MMB-PINACA
8.23.60	2-(1-(5-Fluoropentyl)indazole)-3-carboxamide-3-Me-methylbutanoate	5-FI-AMB, 5-F-MMB-PINACA
8.23.61	N-(1-MeO-3-Me-1-oxobutan-2-yl)-1-(4-FI-benzyl)indazole-3-carboxamide	FUB-AMB
8.23.62	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-indazole carboxamide	MDMB-INACA
8.23.63	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(penten-4-yl)indazole carboxamide	MDMB-4en-PINACA
8.23.64	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(penten-4-yl)indazole carboxamide-D4	
8.23.65	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(2-FI pentyl)indazole carboxamide	2-FI-ADB, 2F-MDMB-PINACA
8.23.66	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(3-FI pentyl)indazole carboxamide	3-FI-ADB, 3F-MDMB-PINACA

Ref	Substance	Other names
8.23.67	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-FI pentyl)indazole carboxamide	4-FI-ADB, 4F-MDMB-PINACA
8.23.68	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(5-FI pentyl)indazole carboxamide	5-FI-ADB, 5F-MDMB-PINACA
8.23.69		(R)-5FI-ADB
8.23.70		(S)-5FI-ADB
8.23.71	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-2-(5-FI pentyl)indazole carboxamide	5FI-ADB isomer 2
8.23.72	N-(1-EtO-3-methyl-1-oxobutan-2-yl)-1-[5-FI pentyl]indazole carboxamide	5F-EMB-PINACA
8.23.73	N-(1-EtO-3,3-dimethyl-1-oxobutan-2-yl)-1-pentylindazole carboxamide	EDMB-PINACA
8.23.74	N-(1-EtO-3,3-dimethyl-1-oxobutan-2-yl)-1-[5-FI pentyl]indazole carboxamide	5F-EDMB-PINACA
8.23.75	N-(1-EtO-3,3-dimethyl-1-oxobutan-2-yl)-1-[penten-4-yl]indazole carboxamide	EDMB-4en-PINACA
8.23.76	N-[1-Aminocarbonyl-2,2-dimethylpropyl]-1-[4-FI benzyl]indazole carboxamide	ADB-FUBINACA
8.23.77	N-[1-Ethylaminocarbonyl-2,2-dimethylpropyl]-1-[4-FI benzyl]indazole carboxamide	EADB-FUBINACA
8.23.78	N-(1-Amino-1-oxo-3-phenylpropan-2-yl)-1-[4-FI benzyl]indazole-3-carboxamide	APP-FUBINACA
8.23.79	N-(1-MeO-3-methyl-1-oxobutan-2-yl)-1-[4-FI benzyl]indazole carboxamide	MMB-FUBINACA
8.23.80	N-(1-EtO-3-methyl-1-oxobutan-2-yl)-1-[4-FI benzyl]indazole carboxamide	EMB-FUBINACA
8.23.81	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-[4-FI benzyl]indazole carboxamide	MDMB-FUBINACA
8.23.82	N-(1-iPrO-3,3-dimethyl-1-oxobutan-2-yl)-1-[4-FI benzyl]indazole carboxamide	iPrDMB-FUBINACA
8.23.83	N-(1-MeO-1-oxopentan-2-yl)-1-[4-FI benzyl]indazole carboxamide	MEP-FUBINACA
8.23.84	2-(1-(5-Fluoropentyl)indazole)-3-carboxamide-3-Me-ethylbutanoate	5-FI-AEB
8.23.85	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-1-(cylohexyl-Me)-1H-indazole-3-carboxamide	AB-CHMINACA
8.23.86	AB-CHMINACA-D4	
8.23.87	N-(1-Amino-3-methyl-1-oxobutan-2-yl)-2-(cylohexyl-Me)-1H-indazole-3-carboxamide	AB-CHMINACA 2'-indazole isomer
8.23.88	N-(1-Amino-1-oxopentan-2-yl)-2-cyclohexyl-Me)-1H-indazole-3-carboxamide	AEP-CHMINACA
8.23.89	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(cylohexyl-Me)-1H-indazole-3-carboxamide	MAB-CHMINACA, ADB-CHMINACA
8.23.90	MAB-CHMINACA-D4	
8.23.91	N-(1-MeO-3-methyl-1-oxobutan-2-yl)-1-(cylohexyl-Me)-1H-indazole-3-carboxamide	MA-CHMINACA
8.23.92	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(cylohexyl-Me)-1H-indazole-3-carboxamide	MDMB-CHMINACA
8.23.93		
8.23.94	N-(1-Amino-1-oxo-3-phenylpropan-2-yl)-1-(5-FI-pentyl)indazole-3-carboxamide	5F-APP-PINACA, PX-2
8.23.95	N-(1-Amino-1-oxo-3-phenylpropan-2-yl)-1-(cyclohexyl-Me)indazole-3-carboxamide	APP-CHMINACA, PX-3
8.23.96		
8.23.97	N-(1-Me-1-Ph-ethyl)-1-pentyl-1H-indazole-3-carboxamide	CUMYL-PINACA, SGT-24
8.23.98	N-(1-Me-1-Ph-ethyl)-1-(5-FI-pentyl)-1H-indazole-3-carboxamide	CUMYL-5F-PINACA, SGT-25
8.23.99	N-(1-Me-1-(4F-Ph)-ethyl)-1-(5-FI-pentyl)-1H-indazole-3-carboxamide	4F-CUMYL-5F-PINACA, SGT-65
8.23.100	N-(1-Me-1-(4Cl-Ph)-ethyl)-1-(5-FI-pentyl)-1H-indazole-3-carboxamide	4-Cl-CUMYL-5F-PINACA, SGT-157
8.23.101		
8.23.102	N-Cumyl-1-(norbornylethyl)-indazole carboxamide	Cumyl-NBMINACA, STG-152
8.23.103	N-(1-Me-1-Ph-ethyl)-1-(2-(piperidin-1-yl)ethyl)-1H-indazole-3-carboxamide	CUMYL-PipEt-INACA, SGT-234
8.23.104	N-Cumyl-1-(2-(4,4-Dif-piperidin-1-yl)ethyl)-indazole carboxamide	STG-235
8.23.105		
8.23.106	N-(1-MeO-3-methyl-1-oxobutan-2-yl)-1-(4-CN butyl)indazole carboxamide	4CN-MMB-BUTINACA
8.23.107	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(butyl)indazole carboxamide	MDMB-BUTINACA
8.23.108	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(but-3-enyl)indazole carboxamide	3-en-MDMB BUTINACA
8.23.109	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-CN butyl)indazole carboxamide	4-CN-MDMB BUTINACA
8.23.110	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-Fl butyl)indazole carboxamide	4F-MDMB BUTINACA
8.23.111	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-Fl butyl)indazole carboxamide-D4	
8.23.112	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-2-(4-Fl butyl)indazole carboxamide	4F-MDMB BUTINACA 2'-indazole isomer

Ref	Substance	Other names
8.23.113	N-(1-MeO-3,3-dimethyl-1-oxobutan-2-yl)-1-butyl -5-bromo-indazole carboxamide	MDMB-5'Br-BUTINACA
8.23.114		
8.23.115	N-(1-EtO-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-Fl butyl)indazole carboxamide	4F-EDMB-BUTINACA
8.23.116		
8.23.117	N-(1-Amino-3-methyl-1-oxobutany-2-yl)-1-(4-Fl butyl)indazole carboxamide	4F-AB-BUTINACA
8.23.118		
8.23.119	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-butyl indazole carboxamide	ADB-BUTINACA
8.23.120	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-cyanobutyl) indazole carboxamide	4CN-ADB-BUTINACA
8.23.121	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-butyl-5-fluoro-indazole carboxamide	ADB-5'F-BUTINACA, ADB-Bu-5-F-INACA
8.23.122	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-butyl-5-bromo-indazole carboxamide	ADB-5'Br-BUTINACA, ADB-Bu-5-Br-INACA
8.23.123		
8.23.124	N-(1-Amino-1-oxo-3-phenylpropan-2-yl)-1-butyl-indazole carboxamide	APP-BUTINACA
8.23.125		
8.23.126	N-(1-Methoxy-1-oxo-3-phenylpropan-2-yl)-1-butyl-indazole carboxamide	MPP-BUTINACA
8.23.127	N-(1-Methoxy-1-oxo-3-phenylpropan-2-yl)-1-(4-HO-butyl-indazole carboxamide	4OH-MPP-BUTINACA
8.23.128		
8.23.129	N-Benzyl-1-(4-cyanobutyl)-1H-indazole-3-carboxamide	Benzyl-4CN-BINACA, Benzyl-4-CN-BUTINACA
8.23.130	N-(1-Phenylpropyl)-1-(4-CN-butyl)-1H-indazole-3-carboxamide	Ethylbenzyl-4CN-BINACA
8.23.131		
8.23.132	N-(1-Me-1-Ph-ethyl)-1-(4-CN-butyl)-1H-indazole-3-carboxamide	4-CN-CUMYL-BUTINACA, SGT-78
8.23.133	N-(1-Me-1-Ph-ethyl)-2-(4-CN-butyl)-2H-indazole-3-carboxamide	4-CN-CUMYL-BUTINACA isomer 2
8.23.134		
8.23.135	N-(1-Me-1-Ph-ethyl)-1-[cyclobutylmethyl]-1H-indazole-3-carboxamide	CUMYL-CBMINACA
8.23.136	N-(1-Me-1-Ph-ethyl)-2-[cyclobutylmethyl]-2H-indazole-3-carboxamide	CUMYL-CBMINACA isomer
8.23.137		
8.23.138	N-(1-Me-1-Ph-ethyl)-1-(norbornylmethyl)-1H-indazole-3-carboxamide	Cumyl-NBMINACA
8.23.139		
8.23.140	N-(1-Me-1-Ph-ethyl)-1-[(tetrahydropyran-4-yl)methyl]-1H-indazole-3-carboxamide	CUMYL-THPINACA
8.23.141		
8.23.142	N-(2,2-DiMe-1-phenylpropyl)-1-(5-Fl pentyl)-indazole-3-carboxamide	5F-TBB-PINACA, 5F-tBuBenzyl-PINACA
8.23.143		
8.23.144	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-hexylindazole -3 -carboxamide	ADB-HEXINACA
8.23.145		
8.23.146	N-Cumyl-1-tosyl-indazole-3-carboxamide	Cumyl-TsINACA
8.23.147		
8.23.148	N-Cumyl-1-cyclohexylsulphonyl-indazole-3-carboxamide	Cumyl-CHSINACA
8.24	Quinolyl indazole carboxamides	
8.24.1	Quinolin-8-yl-1-pentyl-1H-indazole-3-carboxamide	THJ
8.24.2	Quinolin-8-yl-1-(5-fluoropentyl)-1H-indazole-3-carboxamide	5FI -THJ
8.24.3	Dihydroquinolin-1-yl-1-pentyl-1H-indazole-3-carboxamide	THQ-PINACA, SGT-88
8.25	Indazole carboxylates	
8.25.1	1-(4-Flbenzyl)-indazole- 3-(Me-carboxylate)	MFUBINAC
8.25.2	Isobutyl-1-pentyl-1H-indazole-3-carboxylate	iBu-PINAC
8.25.3	1-MeO-3,3-dimethyl-1-oxobut-2-yl-1-(cyclohexylmethyl)-1H-indazole-3-carboxylate	MO-CHMINACA

Ref	Substance	Other names
8.26	Naphthyl indazole carboxylates	
8.26.1	Naphthalenyl-pentylindazole carboxylate	SDB-005
8.26.2	Naphthalenyl-(5-Fl-pentyl)indazole carboxylate	5-Fl-SDB-005
8.26.3	Naphthalenyl-(2-Fl phenyl)indazole carboxylate	3-CAF
8.27	Adamantyl indazole carboxylates	
8.27.1	Adamantyl-1-pentyl-1H-indazole carboxylate	APINAC, AKB-57
8.27.2	Adamantyl-1-(5F-pentyl)-1H-indazole carboxylate	5F-APINAC, 5F-AKB-57
8.28	Quinolinyl indazole carboxylates	
8.28.1	Quinolin-8-yl-1-pentyl-1H-indazole-3-carboxylate	NPB-22
8.28.2	Quinolin-8-yl-1-(5-Fl-pentyl)-1H-indazole-3-carboxylate	5-Fl-NPB-22
8.28.3	Quinolin-8-yl-1-(4-Fl-benzyl)-1H-indazole-3-carboxylate	FUB-NPB-22
8.29	Pyrrolidinyl indazole methanones	
8.29.1	1-(5Fpentyl)-1H-indazol-3-ylpyrrolidin-1-yl methanone	5F-PY-PINACA
	[4A] Indazole core with acetamido linker	
8.29.2	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-butylindazole-3-acetamide	ADB-BUTINAATA, 7-ADD
8.29.3	N-(1-Amino-3,3-dimethyl)-1-oxobutan-2-yl-1-(4-fluorobenzyl)indazole-3-acetamide	ADB-FUBINAATA
	[5] Benzimidazole core	
8.30	Naphthoyl benzimidazoles	
8.30.1	Naphthalen-1-yl(1-pentyl-1H-benzo[d]imidazol-2-yl)methanone	JWH-018 benzimidazole analogue, BIM-018
8.3.2	Naphthalen-1-yl(1-(5-Fl-pentyl)-1H-benzo[d]imidazol-2-yl)methanone	AM-2201 benzimidazole, FUBIMINA, BIM-2201
	[6] Carbazole core	
8.31	Naphthoyl carbazoles	
8.31.1	3-(1-naphthoyl)-9-pentylcarbazole	EG-018
8.31.2	3-(1-naphthoyl)-9-(5-fluoropentyl)carbazole	EG-2201
8.32	Other carbazoles	
8.32.1	Me-2-(9-(cyclohexylMe)-9H-carbazole-3-carboxamido)-3,3-DiMebutanoate	MDMB-CHMCZCA
8.32.2	9-(4-CN-butyl)-N-(2-phenylpropan-2-yl)-9H-carbazole-3-carboxamide	CUMYL-4CN-BUTCZCA
	[7] Azaindole core	
8.33	Azaindole carboxamides	
8.33.1	1-(5-Fl-pentyl)-N-(naphthalen-1-yl)-1H-pyrrolo[3,2-c]pyridine-3-carboxamide	5-Fl-PCN, 5F-MN-21
8.33.2	2-(1-(5F-pentyl)-1H-pyrrolo[3,2-b]pyridine-3-carboxamido-3,3-dimethyl-methylbutanoate	5F-MDMB-P4AICA
8.33.3		5F-MDMB-P6AICA
8.33.4	1-(4-CN-butyl)-N-cumyl-1H-pyrrolo[2,3-b]pyridine-3-carboxamide	Cumyl-4-CN-B7AICA
8.33.5	1-(5-F-pentyl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamido-3-methyl-methylbutanoate	5F-MMB-P7AICA
8.33.6	1-(5-F-pentyl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamido-3,3-dimethyl-methylbutanoate	5F-MDMB-P7AICA

Ref	Substance	Other names
8.33.7	1-(5-F-pentyl)-N-(1-amino-3-methyl-1-oxobutan-2-yl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamide	5F-AB-P7AICA
8.33.8	1-Pentyl-N-(1-amino-3-methyl-1-oxobutanyl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamide-	ADB-P7AICA
8.33.9	1-(5-Pentyl)-N-(1-amino-3-methyl-1-oxobutanyl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamide-	5F-ADB-P7AICA
8.33.10	1-(5-F-pentyl)-N-cumyl-1H-pyrrolo[2,3-b]pyridine-3-carboxamide	5F-Cumyl-P7AICA
8.33.11	1-(4-F benzyl)-N-(1-amino-3-methyl-1-oxobutan-2-yl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamide	AB-7-FUBAICA, AB-FUB7AICA
8.33.12	1-(5-F-pentyl)-quinolin-8-yl-azaindole carboxylate	5F-7-QUPAIC
8.33.13	1-Cyclohexyl(methyl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamido-3-methyl-methylbutanoate	MMB-CHM7AICA
8.33.14	1-Cyclohexyl(methyl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamido-3,3-dimethyl-methylbutanoate	MDMB-CHM7AICA
8.33.15	1-(4-Fluorobenzyl)-1H-pyrrolo[2,3-b]pyridine-3-carboxamido-3,3-dimethyl-methylbutanoate	MDMB-FUB7AICA
8.33.16	1-(4-Fluorobenzyl)-N-adamantyl-1H-pyrrolo[2,3-b]pyridine-3-carboxamide	Adamantyl-FUB7AICA
8.33.17	7-(4-Fluorobenzyl)-N-adamantyl-1H-pyrrolo[2,3-b]pyridine-3-carboxamide	Adamantyl-FUB7AICA 7'-azaindole isomer

[8] Pyrazole core		
8.33.18	1-CHM-5-(4F-Ph) pyrazole carboxamide-N-(1-NH2-3-Me-1-Oxobutanoate)	5,3-AB-CHFUPYCA, AB-CHMFUPPYCA
8.33.19	1-CHM-3-(4F-Ph) pyrazole carboxamide-N-(1-NH2-3-Me-1-Oxobutanoate)	3,5-AB-CHFUPYCA, AB-CHMFUPPYCA [AZ-037?]
8.33.20	1-(5-FP)-5-(4F-Ph) pyrazole carboxamide-N-(1-NH2-3-Me-1-Oxobutanoate)	5F-AB-FUPPYCA, [AZ-037 ?]
8.33.21	1-(5-FP)-3-(4F-Ph) pyrazole carboxamide-N-(1-NH2-3,3-dMe-1-Oxobutanoate)	5F-ADB-FUPYCA
8.33.22	2-(5-FP)-5-(4F-Ph) pyrazole carboxamide-N-(1-NH2-3-Me-1-Oxobutanoate)	[AZ-037?]
8.33.23	1-(Penten-4yl)-3-(4F-phenyl)-pyrazole 5-carboxamide-N-(NH2-3,3-DiMe-1-oxobutanoate	3,5-ADB-4en-PFUPPYCA
8.33.24	1-(Penten-4yl)-5-(4F-phenyl)-pyrazole 3-carboxamide-N-(NH2-3,3-DiMe-1-oxobutanoate	5,3-ADB-4en-PFUPPYCA

[9] Carbolin-1-one core		
8.33.25	2-Cumyl-5-pentyl-gamma-carbolin-1-one	Cumyl PeGaClone, SGT-151
8.33.26	2-Cumyl-5-(5F-pentyl)-gamma-carbolin-1-one	5F-Cumyl PeGaClone
8.33.27	Cumyl PeGaClone ethylbenzyl isomer	
8.33.28	Cumyl PeGaClone N-propylphenyl isomer	
8.33.29	2-Cumyl-5-(cyclohexylbutyl)-gamma-carbolin-1-one	Cumyl-CB-MeGaClone
8.33.30	2-Cumyl-5-(cyclohexylmethyl)-gamma-carbolin-1-one	Cumyl-CH-MeGaClone
8.33.31	2-Cumyl-5-norbornyl-gamma-carbolin-1-one	Cumyl-NB-MeGaClone
8.33.32	2-(2-(3-Me-methyl butanoate))-5-(4-F-benzyl)-carbolin-1-one	MMB-FUBACLONA

[10] 2-Oxo-indol-3-ylidine hydrazide core		
8.33.33	2-(1,2-Dihydro-2-oxo-1-pentyl-3H-indol-3-ylidene)benzohydrazide	BZO-POXIZID, MDA-19-C5
8.33.34	2-(1,2-Dihydro-2-oxo-1-hexyl-3H-indol-3-ylidene)benzohydrazide	BZO-HEOXIZID, MDA-19
8.33.35	2-(1,2-Dihydro-2-oxo-1-heptyl-3H-indol-3-ylidene)benzohydrazide	BZO-HEPOXIZID, MDA-19-C7
8.33.36	2-(1,2-Dihydro-2-oxo-1-(pent-4-enyl)-3H-indol-3-ylidene)benzohydrazide	BZO-4en-POXIZID
8.33.37	2-(1,2-Dihydro-2-oxo-1-(5-F-pentyl)-3H-indol-3-ylidene)benzohydrazide	5F-BZO-POXIZID
8.33.38	2-(1,2-Dihydro-2-oxo-1-(methylcyclohexyl)-3H-indol-3-ylidene)benzohydrazide	BZO-CHMOXIZID
8.33.39	2-(1,2-Dihydro-2-oxo-1-(ethylcyclohexyl)-3H-indol-3-ylidene)benzohydrazide	BZO-CHEOXIZID
8.33.40	2-(1,2-Dihydro-2-oxo-1-(4-fluorobenzyl)-3H-indol-3-ylidene)benzohydrazide	BZO-FUBOXIZID
8.33.41	2-(1,2-Dihydro-2-oxo-1-pentyl-6-MeO-3H-indol-3-ylidene)benzohydrazide	6-MeO-BZO-POXIZID, MDA-77

Ref	Substance	Other names
8.34	Other synthetic cannabinoids	
8.34.1	2-(3-Hydroxycyclohexyl)-5-(1,1-dimethylhexyl)phenol	CP 47,497 (C6 homologue)
8.34.2	2-(3-Hydroxycyclohexyl)-5-(1,1-dimethylheptyl)phenol	CP 47,497
8.34.3	2-(3-Hydroxycyclohexyl)-5-(1,1-dimethylheptyl)phenol-D5	
8.34.4	2-(3-Hydroxycyclohexyl)-5-(1,1-dimethylheptyl)phenol-D11	
8.34.5	2-(3-Hydroxycyclohexyl)-5-(1,1-dimethyloctyl)phenol	CP 47,497 (C8 homologue)
8.34.6	2-(3-Hydroxycyclohexyl)-5-(1,1-dimethyloctyl)phenol-D7	CP 47,497 (C8 homologue)-D7
8.34.7	2-(3-Hydroxycyclohexyl)-5-(1,1-dimethylnonyl)phenol	CP 47,497 (C9 homologue)
8.34.8	2-(2(3-Hydroxypropyl)-5-hydroxycyclohexyl)-5-(1,1-dimethylheptyl)phenol	CP 55,940
8.34.9	2-(2(3-Hydroxypropyl)-5-hydroxycyclohexyl)-5-(1,1-dimethylheptyl)phenol-D11	CP 55,940-D11
8.34.10	1,1-Dimethylheptyl-11-hydroxy-THC	HU-210
8.34.11	1,1-Dimethylheptyl-11-hydroxy-THC-D6	
8.34.12	HU-243	HU-243
8.34.13	HU-243-D6	
8.34.14	HU-308	
8.34.15	Pravadoline	WIN 48,098
8.34.16	6-Bromopravadoline	WIN 54,461
8.34.17		WIN 55,212-2
8.34.18	1-Naphthalenyl -1-(4-pentyloxy)naphthalenyl methanone	CB-13 or CRA-13
8.34.19		A-796,260 (LTI-258)
8.34.20		A-796,260 impurity
8.34.21		A-836,339
8.34.22		ORG 28611
8.34.23		URB-754
8.34.24	3-(2-MeO-benzyl)-5-MeO-7-pentyl-2H-1-benzopyran-2-one	PSB-SB1202
8.34.25	BAY 59-3074	
8.34.26	Quinolin-8-yl-3(4,4-DiF-(1-piperidinyl)sulphonyl)-4-Me-benzoate	2F-QMPSB
8.34.27	Naphthal-1-yl-3-(N,N-dimethylsulphonyl)-4-Me-benzoate	NMBMSB
8.34.28	1-(4F-benzyl)-2-oxo-3(cyclohexylcarboxamide)-4-Me-5-Br-1,2-dihydropyridine	CHO-4'-Me-5'Br-FUBOPYPRA
8.35	Mixed standards	
8.35.1	Spice Mix : JWH-200, JWH-250, HU-211	
8.35.2	CP-47,497 & CP-47,497 C8 homologue	
8.35.3	Spice Mix 2 : JWH-019, JWH-081 , JWH-122 and AM2201	
8.35.4	Spice Mix 3 : RCS-4 & -8, JWH 203 & 210, AM2233	
8.35.5		
8.35.6	Synth cannabinoid Mix 1 : JWH-018, -073, -122, -210, -250, AM-2201, MAM-2201	
8.35.7	UR-144, 5-Cl-UR-144, XLR-144 + UR-144 & XLR-144 degradants	
8.35.8	Synth cannabinoid mix 3 : PB22, 5F-PB-22, 5F-PB-22 (3-OH Quinolynyl),	
8.35.9	FUB-PB-22, FUB-UR-144 , MMB-FUBINACA , 5F-NNEI , NM-2201, THJ-2201	

Ref	Parent compound	Metabolite
9.0	Synthetic Cannabinoid Metabolites	
9.1	Indole core	
9.1.1	JWH-007	N-(5-Hydroxypentyl) metabolite
9.1.2		N-Pentanoic acid metabolite
9.1.3		N-Pentanoic acid metabolite-D4
9.1.4		
9.1.5	JWH-016	N-(4-Hydroxybutyl) metabolite
9.1.6		N-Butanoic metabolite
9.1.7		N-Butanoic metabolite-D4
9.1.8		
9.1.9	JWH-018	2-Hydroxyindole metabolite
9.1.10		2-Hydroxyindole metabolite-D9
9.1.11		4-Hydroxyindole metabolite
9.1.12		4-Hydroxyindole metabolite-D9
9.1.13		5-Hydroxyindole metabolite
9.1.14		5-Hydroxyindole metabolite-D9
9.1.15		6-Hydroxyindole metabolite
9.1.16		6-Hydroxyindole metabolite-D9
9.1.17		7-Hydroxyindole metabolite
9.1.18		7-Hydroxyindole metabolite-D9
9.1.19		N-Propanoic acid metabolite
9.1.20		N-Pentanoic acid metabolite
9.1.21		N-Pentanoic acid metabolite-D4
9.1.22		N-Pentanoic acid metabolite-D5
9.1.23		N-Pentanoic acid metabolite glucuronide
9.1.24		N-(2-Hydroxypentyl) metabolite
9.1.25		N-(3-Hydroxypentyl) metabolite
9.1.26		N-(4-Hydroxypentyl) metabolite
9.1.27		N-(4-Hydroxypentyl) metabolite-D5
9.1.28		N-(5-Hydroxypentyl) metabolite
9.1.29		N-(5-Hydroxypentyl) metabolite-D5
9.1.30		N-(5-Hydroxypentyl) metabolite glucuronide
9.1.31		N-(5-Hydroxypentyl) metabolite glucuronide-D5
9.1.32		N-(4-Keto-pentyl) metabolite
9.1.33	JWH-019	5-Hydroxyindole metabolite
9.1.34		N-(5-Hydroxyhexyl) metabolite
9.1.35		N-(5-Hydroxyhexyl) metabolite-D5
9.1.36		N-(6-Hydroxyhexyl) metabolite
9.1.37		N-(6-Hydroxyhexyl) metab glucuronide
9.1.38	JWH-072	N-Propanoic acid metabolite
9.1.39	JWH-073	2-Hydroxyindole metabolite
9.1.40		2-Hydroxyindole metabolite-D7
9.1.41		4-Hydroxyindole metabolite
9.1.42		4-Hydroxyindole metabolite-D7

Ref	Parent compound	Metabolite
9.1.43		5-Hydroxyindole metabolite
9.1.44		5-Hydroxyindole metabolite-D7
9.1.45		6-Hydroxyindole metabolite
9.1.46		6-Hydroxyindole metabolite-D7
9.1.47		7-Hydroxyindole metabolite
9.1.48		7-Hydroxyindole metabolite -D7
9.1.49		N-Butanoic acid metabolite
9.1.50		N-Butanoic acid metabolite-D4
9.1.51		N-Butanoic acid metabolite-D5
9.1.52		N-(2-Hydroxybutyl) metabolite
9.1.53		N-(3-Hydroxybutyl) metabolite
9.1.54		N-(3-Hydroxybutyl) metabolite-D5
9.1.55		N-(4-Hydroxybutyl) metabolite
9.1.56		N-(4-Hydroxybutyl) metabolite-D5
9.1.57		N-(4-OH butyl)-β-D-glucuronide
9.1.58	JWH-081	N-(4-Hydroxypentyl) metabolite
9.1.59		N-(4-Hydroxypentyl) metabolite-D5
9.1.60		N-(5-Hydroxypentyl) metabolite
9.1.61		N-(5-Hydroxypentyl) metabolite-D5
9.1.62		N-Pentanoic acid metabolite
9.1.63		N-Pentanoic acid metabolite-D4
9.1.64		N-Pentanoic acid metabolite-D5
9.1.65		4-Hydroxynaphthal metabolite
9.1.66	JWH-098	N-(5-Hydroxypentyl) metabolite
9.1.67		N-Pentanoic acid metabolite
9.1.68		N-Pentanoic acid metabolite-D4
9.1.69	JWH-122	N-(4-Hydroxypentyl) metabolite
9.1.70		N-(4-Hydroxypentyl) metabolite-D4
9.1.71		N-(5-Hydroxypentyl) metabolite
9.1.72		N-(5-Hydroxypentyl) metabolite-D5
9.1.73		N-Pentanoic acid metabolite
9.1.74		N-Pentanoic acid metabolite-D4
9.1.75	JWH-122 2-methylnaphthal analogue	N-(5-Hydroxypentyl) metabolite
9.1.76	JWH-200	4-Hydroxyindole metabolite
9.1.77		5-Hydroxyindole metabolite
9.1.78		6-Hydroxyindole metabolite
9.1.79		7-Hydroxyindole metabolite
9.1.80	JWH-203	N-(4-Hydroxypentyl) metabolite
9.1.81		N-(5-Hydroxypentyl) metabolite
9.1.82		N-Pentanoic acid metabolite
9.1.83		N-Pentanoic acid metabolite-D4
9.1.84		N-Pentanoic acid metabolite-D5
9.1.85	JWH-210	N-(5-Carboxypentyl) metabolite
9.1.86		N-(4-Hydroxypentyl) metabolite
9.1.87		N-(4-Hydroxypentyl) metabolite-D5

Ref	Parent compound	Metabolite
9.1.88		N-(5-Hydroxypentyl) metabolite
9.1.89		5-Hydroxyindole metabolite
9.1.90	JWH-250	5-Hydroxyindole metabolite
9.1.91		N-(4-Hydroxypentyl) metabolite
9.1.92		N-(4-Hydroxypentyl) metabolite-D5
9.1.93		N-(5-Hydroxypentyl) metabolite
9.1.94		N-(5-Hydroxypentyl) metabolite-D5
9.1.95		N-(5-Carboxypentyl) metabolite
9.1.96		N-(5-Carboxypentyl) metabolite-D4
9.1.97	JWH-398	N-(5-Hydroxypentyl) metabolite
9.1.98		N-(4-Hydroxypentyl) metabolite
9.1.99		N-(4-Hydroxypentyl) metabolite-D5
9.1.100		N-Pentanoic acid metabolite
9.1.101		N-Pentanoic acid metabolite-D5
9.1.102	AM694	N-(5-Hydroxypentyl) metabolite
9.1.103		N-Pentanoic acid metabolite
9.1.104		N-Pentanoic acid metabolite -D5
9.1.105	AM2201	2-Hydroxyindole metabolite
9.1.106	(Note: loss of terminal F1 can lead to JWH-018 metabolites)	5-Hydroxyindole metabolite
9.1.107		6-Hydroxyindole metabolite
9.1.108		7-Hydroxyindole metabolite
9.1.109		N-(4-Hydroxypentyl) metabolite
9.1.110		N-(4-Hydroxypentyl) metabolite-D5
9.1.111		N-(5-Hydroxypentyl) metabolite
9.1.112	MAM2201	N-Pentanoic acid metabolite
9.1.113	(Note: loss of terminal F1 can lead to JWH-122 metabolites)	N-Pentanoic acid metabolite-D5
9.1.114		N-(4-Hydroxypentyl) metabolite
9.1.115		N-(4-Hydroxypentyl) metabolite-D5 (on indole)
9.1.116		N-Pentanoic acid metabolite
9.1.117	RCS-4	N-(5-Hydroxypentyl) metabolite
9.1.118		N-(5-Hydroxypentyl) metabolite-D5
9.1.119		N-(4-Hydroxypentyl) metabolite
9.1.120		N-(4-Hydroxypentyl) metabolite-D5
9.1.121		N-Pentanoic acid metabolite
9.1.122		N-Pentanoic acid metabolite-D4
9.1.123		N-Pentanoic acid metabolite-D5
9.1.124		N-(4-Hydroxypentyl)-4-hydroxy metab
9.1.125		N-(5-Hydroxypentyl)-4-hydroxy metab
9.1.126		N-(4-Oxopentyl)-4-hydroxy metab
9.1.127		4-Hydroxyphenyl metabolite
9.1.128	RCS-4 2-methoxy homologue	N-(5-Hydroxypentyl) metabolite
9.1.129		N-Pentanoic acid metabolite
9.1.130		N-Pentanoic acid metabolite-D4
9.1.131	RCS-4 3-methoxy homologue	N-(5-Hydroxypentyl) metabolite
9.1.132		N-Pentanoic acid metabolite

Ref	Parent compound	Metabolite
9.1.133		N-Pentanoic acid metabolite-D4
9.1.134	UR-144	N-(2-Hydroxypentyl) metabolite
9.1.135		N-(4-Hydroxypentyl) metabolite
9.1.136		N-(4-Hydroxypentyl) metabolite-D5
9.1.137		N-(5-Hydroxypentyl) metabolite
9.1.138		N-(5-Hydroxypentyl) metabolite-D5
9.1.139		N-Pentanoic acid metabolite
9.1.140		N-Pentanoic acid metabolite-D5
9.1.141	UR-144 degradent	N-Pentanoic acid metabolite
9.1.142	XLR11 (5F-UR-144)	N-(4-Hydroxypentyl) metabolite
9.1.143		N-(4-Hydroxypentyl) metabolite-D5
9.1.144		6-Hydroxyindole metabolite
9.1.145		6-Methoxyindole metabolite
9.1.146	Benzyl-PICA (SDB-006)	N-(4-Hydroxypentyl) metabolite
9.1.147	5F-ABICA	N-(4-Hydroxypentyl) metabolite
9.1.148	APICA	N-(4-Hydroxypentyl) metabolite
9.1.149		N-(5-Hydroxypentyl) metabolite
9.1.150		N-Pentanoic acid metabolite
9.1.151	5F-APICA (STS-135)	N-(4-Hydroxypentyl) metabolite
9.1.152	ADBICA (ADB-PICA)	N-(4-Hydroxypentyl) metabolite
9.1.153		N-(5-Hydroxypentyl) metabolite
9.1.154		N-Pentanoic acid metabolite
9.1.155	MMB-CHMICA (AMB-CHMICA)	O-desmethyl acid
9.1.156	MDMB-CHMICA	O-desmethyl acid
9.1.157		Butanoic acid metabolite
9.1.158	MMB-FUBICA	O-desmethyl acid
9.1.159	MDMB-FUBICA	O-desmethyl acid
9.1.160	4F-MMB-BUTICA	N-Butanoic acid metabolite
9.1.161	4F-MDMB-BUTICA	N-Butanoic acid metabolite
9.1.162		N-4-OH-butyl metabolite
9.1.163		3,3-DiMebutanoic acid metabolite
9.1.164		
9.1.165	MMB-PICA	N-5-OH-pentyl metabolite
9.1.166		N-5-OH-pentyl metabolite and 3-methylbutanoic acid metab
9.1.167		
9.1.168	5F-MMB-PICA	Butanoic acid metabolite
9.1.169		N-(4-Hydroxypentyl) and 3-methylbutanoic acid metabolite
9.1.170		
9.1.171	5F-MDMB-PICA	N-(5-Hydroxypentyl) (metabolite #2)
9.1.172		N-(4-Hydroxypentyl) metabolite
9.1.173		N-(4-hydroxypentyl) and butanoic acid (metabolite #4)
9.1.174		O-desmethyl acid (metabolite #7)
9.1.175		Butanoic acid metabolite (metabolite #7 D5)
9.1.176		N-propionic acid (metabolite #8)
9.1.177		6-OH indole (metabolite #9)

Ref	Parent compound	Metabolite
9.1.178	MMB-4en-PICA	Butanoic acid metabolite
9.1.179		N-(5-Hydroxypentyl) and 3-butanoic acid metabolite
9.1.180		N-(4- and 5-Dihydroxypentyl) and 3-butanoic acid metab
9.1.181	MDMB-4-en-PICA	Butanoic acid metabolite
9.1.182		N-(4- and 5-dihydroxypentyl) and butanoic acid metab
9.1.183	5F-EMB-PICA	N-(5-Hydroxypentyl) metabolite
9.1.184	APP-PICA	Phenylpropanoic acid metabolite
9.1.185	CUMYL-PICA	N-Pentanoic acid metabolite
9.1.186	5F-CUMYL-PICA	N-(4-Hydroxypentyl) metabolite
9.1.187	MPP-PICA	N-(5-Hydroxypentyl) metabolite
9.1.188		N-(5-Hydroxypentyl) and 3-phenyl propanoic acid metab
9.1.189	5F-MPP-PICA	3-Phenyl propionic acid metabolite
9.1.190	PB-22	3-Carboxyindole metabolite
9.1.191		N-(4-Hydroxypentyl) metabolite
9.1.192		N-(4-Hydroxypentyl) metabolite-D5 (on indole)
9.1.193		N-(5-Hydroxypentyl) metabolite
9.1.194		N-(4-OH pentyl) 3-carboxyindole
9.1.195		N-(5-OH pentyl) 3-carboxyindole
9.1.196		N-Pentanoic acid metabolite
9.1.197		N-Pentanoic acid metabolite-D5 (on indole)
9.1.198	5-FI -PB22	3-Carboxyindole metabolite
9.1.199		3-Carboxyindole metabolite-D5
9.1.200		N-(4-Hydroxypentyl) metabolite
9.1.201	FUB-PB22	3-Carboxyindole metabolite
9.1.202	BB-22	3-Carboxyindole metabolite
9.1.203	ADB-FUBIATA	6-Hydroxy indole metabolite
9.1.204		3,3-Dimethylbutanoic metabolite
9.1.205	CH-PIATA	N-pentanoic acid metabolite

9.2	Indazole core	
9.2.1	MN-18	N-(5-Hydroxypentyl) metabolite
9.2.2	THJ-2201	N-(5-Hydroxypentyl) metabolite
9.2.3	MDMB-INACA (no tail)	3,3-Dimethylbutanoic acid metabolite
9.2.4	MDMB-5Br-INACA (no tail)	N-Butanoic acid metabolite
9.2.5	MDMB-PROPINACA	N-Propanoic acid metabolite
9.2.6	4-CN-MMB-BUTINACA	N-Butanoic acid metabolite
9.2.7		3-Me butanoic acid metabolite
9.2.8		N-Butanoic and 3-Me butanoic acid metabolite
9.2.9	MDMB-BUTINACA	N-Butanoic acid metabolite
9.2.10	MDMB-3en-BUTINACA	N-Butanoic acid metabolite
9.2.11	4F-MDMB-BUTINACA	N-Butanoic acid metabolite
9.2.12		N-4-Hydroxybutyl metabolite
9.2.13		3,3-DiMe Butanoic acid metabolite
9.2.14		3-Carboxyindazole metabolite
9.2.15		N-4-Hydroxybutyl and 3,3-DiMe butanoic acid metabolite

Ref	Parent compound	Metabolite
9.2.16	4F-MDMB-BUTINACA 2'-indazole isomer	3-Carboxyindazole metabolite
9.2.17		Butanoic acid metabolite
9.2.18	ADB-BUTINACA	N-Butanoic acid metabolite
9.2.19		N-(4-HO-butyl) metabolite
9.2.20		7-Hydroxyindazole metabolite
9.2.21	ADB-5'Br-BUTINACA	3,3-Dimethyl butanoic acid metabolite
9.2.22	CUMYL-BUTINACA	N-(4-Hydroxybutyl) metabolite
9.2.23	APP-BUTINACA	3-Phenyl propanoic acid metabolite
9.2.24		N-(4-Hydroxybutyl) metabolite
9.2.25	4F-ABUTINACA	N-Butanoic acid metabolite
9.2.26		N-(4-Hydroxypentyl) metabolite
9.2.27	AKB-48 (APINACA)	N-(4-Hydroxypentyl) metabolite
9.2.28		N-(5-Hydroxypentyl) metabolite
9.2.29		N-(5-Hydroxypentyl) metabolite-D4
9.2.30		N-Pentanoic acid metabolite
9.2.31	5-FI AKB-48	N-(4-Hydroxypentyl) metabolite
9.2.32		N-Pentanoic acid metabolite
9.2.33	AB-PINACA	N-(4-Hydroxypentyl) metabolite
9.2.34		5-Hydroxypentyl metabolite
9.2.35		N-Pentanoic acid metabolite
9.2.36		3-Carboxyindazole metabolite
9.2.37	5-FI AB-PINACA	N-(4-Hydroxypentyl) metabolite
9.2.38		3-Carboxyindazole metabolite
9.2.39	ADB-PINACA	N-(4-Hydroxypentyl) metabolite
9.2.40		N-(5-Hydroxypentyl) metabolite
9.2.41		N-Pentanoic acid metabolite
9.2.42		N-Pentanoic acid metabolite-D4
9.2.43	MMB-4en-PINACA	Butanoic acid metabolite
9.2.44	MDMB-4en-PINACA	Butanoic acid metabolite
9.2.45	AMB (MMB-PINACA)	N-Pentanoic acid metabolite
9.2.46		N-Pentanoic acid metabolite and -OMe replaced by -OH
9.2.47		N-(5-Hydroxypentyl) metabolite
9.2.48		Butanoic acid (on linked group)
9.2.49	5-FI-AMB (5F-MMB-PINACA)	M6 Metab (-OMe replaced by -OH & 5F by COOH)
9.2.50		M7 Metab (terminal -OMe replaced by -OH)
9.2.51		N-(5-Hydroxypentyl) metabolite
9.2.52		N-(5-Hydroxypentyl) and -OMe replaced by -OH
9.2.53		N-Pentanoic acid metabolite
9.2.54	5F-ADB (5F-MDMB-PINACA)	M7, -OH replaces -OMe
9.2.55		N-(5-Hydroxypentyl) metabolite (metabolite 2)
9.2.56	Cumyl-PINACA	N-(5-Hydroxypentyl) metabolite
9.2.57	5F-Cumyl PINACA	N-pentanoic acid derivative
9.2.58	AB-CHMINACA	M1A (4 -OH on cyclohexyl ring)
9.2.59		M1B (3 -OH on cyclohexyl ring)
9.2.60		M2 (terminal -NH2 replaced by -OH)

Ref	Parent compound	Metabolite
9.2.61		M3A (dihydroxylated)
9.2.62		M4 (carboxamide replaced by carboxyl)
9.2.63		M4-D4
9.2.64		M5A (ring hydroxylated, 2nd structure lost)
9.2.65		M6 (carboxylated)
9.2.66	MAB-CHMINACA (ADB-CHMINACA)	M1 (4-OH on cyclohexyl ring)
9.2.67		M2 (terminal -NH2 replaced by -OH)
9.2.68		M3 (-NH2 replaced by -OH & 4 -OH on CHX)
9.2.69		M6 (carboxylated on terminal carbon)
9.2.70		M7 (-NH2 rep by -OH & -COOH on term C)
9.2.71		M10 (-NH2 eliminated and lactone formed)
9.2.72		M11 (-OH on CHX ring & on terminal carbon)
9.2.73	AB-FUBINACA	M2a (terminal carbon carboxylated)
9.2.74		M3 (terminal -NH2 replaced by -OH)
9.2.75		M3 (terminal -NH2 replaced by -OH) 13C5,15N
9.2.76		M4 (carboxylic acid on indazole)
9.2.77	ADB-FUBINACA	(terminal -NH2 replaced by -OH)
9.2.78		(terminal -NH2 replaced by -OMe)
9.2.79	MDMB-FUBINACA	M1 (terminal -OMe replaced by OH)
9.2.80	MDMB-HEXINACA	Butanoic acid
9.2.81	ADB-HEXINACA	3,3-Dimethyl butanoic acid metab
9.2.82		5-OH hexyl metabolite

9.3	Other materials	
9.3.1	CP 47,497	C-7 Hydroxy metabolite
9.3.2	CP 47,497 C-8 homolog	C-8 Hydroxy metabolite
9.3.3	5F-MDMB-7-PAICA	Butanoic acid metabolite
9.3.4	MDMB-CHMCZCA	M3 (COOH replaces sidechain)
9.3.5	FUBIMINA	N-(5-Hydroxpentyl) metabolite
9.3.6		N-Pentanoic acid metabolite
9.3.7	5-F-Cumyl PeGaClone	N-(5-Hydroxpentyl) metabolite
9.3.8		N-Pentanoic acid metabolite
9.3.9	5F-Cumyl-P7AICA	N-Pentanoic acid metabolite
9.3.10	CH-PIATA	4-Hydroxpentyl metabolite
9.3.11	MDA-19; BZO-HEOXIZID	N-(5-Hydroxyhexyl) metabolite
9.3.12		4-Hydroxybenzoyl metabolite
9.3.13	5F-BZO-POXIZID	N-(5-Hydroxpentyl) metabolite
9.3.14	BZO-4en-POXIZID	4,5-Dihydroxy metabolite
9.3.15	BZO-CHMOXIZID	4-Hydroxy metabolite

Ref	Substance	Other names
10.0	Other NPS Chemicals	
Ref	Parent :	Metabolite:
10.1	Cocaine-like materials	
10.1.1	Benzocaine	
10.1.2	Benzocaine -D4	
10.1.3	Caffeine	
10.1.4	Caffeine-D9	
10.1.5	Cinchocaine	Dibucaine, Nupercaine
10.1.6	Dimethocaine	3-DiEtAmino-2,2-dimethylpropyl-4-aminobenzoate
10.1.7	N-(2,6-DiMePhenyl)-1-piperadineacetamide	(Lidocaine with DiEt-amino cyclised)
10.1.8	4-Fluorococaine	
10.1.9	4-Fluorotropacocaine	3β-(p-Fluorobenzoyloxy)tropane, 3-p-FBT
10.1.10	Lidocaine (Lignocaine)	2-DiEtAmino-N-(2,6-DiMePhenyl)acetamide
10.1.11	Lidocaine-D10	
10.1.12	Mepivacaine	Carbocaine,
10.1.13	Nitracaine	3-DiEtAmino-2,2-dimethylpropyl-4-nitrobenzoate
10.1.14	Octacaine	3-(Diethylamino)-N-phenylbutanamide
10.1.15	Prilocaine	N-(2-MePhenyl)-2-(propylamino)propanamide
10.1.16	Procainamide	
10.1.17	Procaine	2-Ethylamino-4-aminobenzoate
10.1.18	Procaine-D4	
10.1.19	RTI-31	Cocaine with 4-Cl-Phenyl for benzoyl
10.1.20	RTI 111	Dichloropane
10.1.21	RTI 111-D3	
10.1.22	Synephrine	Oxedrine
10.1.23	Tetracaine	
10.1.24	Tetracaine-D6	
10.2	Benzodiazepine-like materials	
10.2.1	Adinazolam	
10.2.2	Bentazepam	Thiadipone
10.2.3	Bretazenil	Suggested social alternative to alcohol
10.2.4	Bromazolam	
10.2.5	Bromazolam-D5	
10.2.6	4-Chlorodiazepam	
10.2.7	Cinazepam	Pro-drug for 3-OH phenazepam
10.2.8	Clobazam	
10.2.9	Clonazolam	Clonitrazolam
10.2.10	Clonazolam-D4	
10.2.11	Cloniprazepam	
10.2.12	Clotizolam	
10.2.13	Desalkylgidazepam	
10.2.14	Desalkylgidazepam-D5	
10.2.15	N-Desalkylquazepam	

Ref	Substance	Other names
10.2.16	Deschloroclotizolam	
10.2.17	Deschloroetizolam	
10.2.18	Deschloroetizolam-D5	
10.2.19	Deschloroflualprazolam	
10.2.20	Deschloronorfludiazepam	
10.2.21	1-Demethylphenazolam	
10.2.22	Diclazepam	
10.2.23	Diclazepam-D4	
10.2.24	Difludiazepam	Ro 07-4065
10.2.25	Estazolam	
10.2.26	Etizolam	
10.2.27	Etizolam-D3	
10.2.28	Etizolam-D4	
10.2.29	Etizolam-D8	
10.2.30	Flualprazolam	
10.2.31	Flualprazolam-D4	
10.2.32	Flualprazolam-D7	
10.2.33	Flubromazepam	
10.2.34	Flubromazepam isomer (Fl and Br reversed)	Iso-flubromazepam
10.2.35	Flubromazepam-13C2,15N	
10.2.36	Flubromazolam	
10.2.37	Flubromazolam-D4	
10.2.38	Flubrotizolam	
10.2.39	Fluclotizolam	
10.2.40	Fludiazepam	
10.2.41	Fludiazepam-D4	
10.2.42	Fluetizolam (etizolam with F for Cl)	
10.2.43	Flunitrazolam	
10.2.44	Flurazepam	
10.2.45	Flutoprazepam (Japanese pharmaceutical)	
10.2.46	Fonazepam	Desmethylflunitrazepam
10.2.47	4-Hydroxyalprazolam	
10.2.48	α -Hydroxybromazolam	
10.2.49	α -Hydroxyclobromazolam	
10.2.50	α -Hydroxydeschloroflualprazolam	
10.2.51	9-Hydroxyetizolam	
10.2.52	α -Hydroxyflualprazolam	
10.2.53	3-Hydroxyflubromazepam	
10.2.54	α -Hydroxyflubromazolam	
10.2.55	3-Hydroxyflunitrazepam	
10.2.56	3-Hydroxyflunitrazepam-13C6	
10.2.57	4-Hydroxymidazolam	
10.2.58	3-Hydroxyphenazepam	
10.2.59	3-Hydroxyphenazepam-D4	
10.2.60	Iso-flualprazolam	

Ref	Substance	Other names
10.2.61	Meclonazepam	
10.2.62	Meclonazepam-D3	
10.2.63	Meclonazepam-D4	
10.2.64	R-,S-Meclonazepam	
10.2.65	Medazepam	
10.2.66	Methylclonazepam	Me on N of benzodiazepine fused rings
10.2.67	Metizolam	
10.2.68	Nifoxipam	
10.2.69	Nifoxipam-D4	
10.2.70	Nimetazepam	
10.2.71	Nimetazepam-D3	
10.2.72	Nitemazepam (3-HO-nimetazepam)	
10.2.73	Nitrazolam	
10.2.74	Nordiazepam	Ro5-2180
10.2.75	Phenazepam	
10.2.76	Phenazepam-D4	
10.2.77	Phenazolam	
10.2.78	Pivoxazepam	
10.2.79	Pyrazolam	
10.2.80	Pyrazolam-D4	
10.2.81	Ro 5-4864	4-Chlorodiazepam
10.2.82	Ro 07-3953	
10.2.83	Ro 07-4065	N-Me form of Ro 07-3953
10.2.84	Thionordiazepam	
10.2.85	Tofisopam	
10.2.86	Triazolam	
10.2.87	Zolazepam	
10.2.88	Mixed standard : 11 NPS benzos, each at 100ug/ml	
10.2.89	Mixed standard : 7 NPS benzos, each at 100ug/ml	

10.3	Other pharmaceuticals	
10.3.1	Benzydamine	
10.3.2	Dextromethorphan HBr	DXM
10.3.3	Dextromethorphan-D3	
10.3.4	Fencamfamine	
10.3.5	Fencamfamine-D5	
10.3.6	Gabapentin	
10.3.7	Gabapentin-D4	
10.3.8	Gabapentin-D10 (on cyclohexyl)	
10.3.9	Gabapentin-13C 3	
10.3.10	Lefetamine	
10.3.11	Methylphenidate	
10.3.12	Methylphenidate-D9	
10.3.13	Methylphenidate-D10	
10.3.14	Phenibut	

Ref	Substance	Other names
10.3.15	Pregabalin	Lyrica, 3-Aminomethyl-5-methylhexanoic acid
10.3.16	Pregabalin-D4	
10.3.17	Pregabalin-D6	
10.3.18	Pregabalin-13C3	
10.3.19	Pregabalin- 13C, D3	
10.3.20	Pregabalin methyl ester	
10.3.21	Propylhexedrine	Benzedrex, Oberin
10.3.22	Quetiapine	
10.3.23	Quetiapine-D8	
10.3.24	Tianeptine	Antidepressant with MOR agonist activity
10.3.25	Tianeptine-D6	
10.3.26	Tianeptine-13C6	
10.3.27	Tramadol	
10.3.28	Tramadol-D6	
10.3.29	Tramadol-13C, D3	

10.4	alpha-2 Adrenergic receptor agonists	
10.4.1	Clonidine	
10.4.2	Detomidine	
10.4.3	Medetomidine	
10.4.4	Dexmedetomidine	
10.4.5	Romifidine	
10.4.6	Tizanidine	
10.4.7	Xylazine	
10.4.8	Xylazine-D6	
10.4.9	2,6-Xylidine	
10.4.10	2,6-Xylidine-D6	

10.5	Methaqualone-related materials	
10.5.1	Afloqualone	
10.5.2	4',5-Dichloromethaqualone	SL-164
10.5.3	Diproqualone	
10.5.4	Etaqualome	
10.5.5	Mebroqualone	
10.5.6	Mecloqualone	
10.5.7	Methaqualone	
10.5.8	Methaqualone-D5	
10.5.9	Methaqualone-D7	
10.5.10	3-Methyl methaqualone	3- Me on phenyl ring
10.5.11	4-Methyl methaqualone	4- Me on phenyl ring
10.5.12	Nitromethaqualone	

10.6	Methylphenidate ('Ritalin')-related materials	
10.6.1	4-Fluoromethylphenidate	
10.6.2	4-Me-methylphenidate	

Ref	Substance	Other names
10.6.3	3,4-Dichloromethylphenidate	3,4-DCMP
10.6.4	Ethylphenidate	Ethyl homologue of Methylphenidate
10.6.5	4-Fluoroethylphenidate	
10.6.6	Propylphenidate	
10.6.7	Isopropylphenidate	
10.6.8	Methylnaphthidate	HDMP-28
10.6.9	Ethylnaphthidate	HDEP-28

10.7	Modafinil-related materials	
10.7.1	4-Chloromodafinil	
10.7.2	Adrafinil, CRL-40,028	N-HO Modafinil (pro-drug for Modafinil)
10.7.3	Fluorafinil, Fladrafinil, CRL-40,941	N-HO-4,4'-difluoro analogue of Modafinil
10.7.4	Modafiednz	N-Me-4,4'-difluoro analogue of Modafinil
10.7.5	Fluorenol	9-Hydroxyfluorene

10.8	Phenmetrazine-related materials	
10.8.1	Phenmetrazine	Preludin
10.8.2	Phenmetrazine-D5	
10.8.3	Phendimetrazine	N-Me Preludin (pro-drug for phenmetrazine)
10.8.4	Phendimetrazine-D5	
10.8.5	3-Fluorophenmetrazine	
10.8.6	3-Chlorophenmetrazine	
10.8.7	3-Methyl-2-(p-tolyl)morpholine	4-MPM
10.8.8	Phenetrazine	3-Et-2-phenylmorpholine

10.9	'Designer' forms of pharmaceuticals	
10.9.1	Camfetamine	N-Methyl homologue of Fencamfamine
10.9.2	Desmethylprodine	Analogue of Pethidine ("MPPP")
10.9.3	N-Desmethyltramadol	
10.9.4	O-Desmethyltramadol	Active metabolite of Tramadol
10.9.5	O-Desmethyltramadol-D6	
10.9.6	Desomorphine	'Krokodil'
10.9.7	Desomorphine-D3	
10.9.8	Etaqualone	(2-Ethylphenyl) homologue of Methaqualone
10.9.9	Etaqualone-D3	
10.9.10	Mebroqualone	2-Br analogue of Methaqualone
10.9.11	4F-Phenibut	

10.10	Lefetamine-related materials	
10.10.1	Ephenidine	
10.10.2	Diphenidine	
10.10.3	2-Methoxyphenidine	MXP
10.10.4	Fluorolintane	
10.10.5	1-(1,3-Diphenylpropan-2-yl)pyrrolidene	Prolintane with benzyl instead of propyl

Ref	Substance	Other names
10.11	Pipradrol-related materials	
10.11.1	Pipradrol	
10.11.2	Pipradrol-D5	
10.11.3	Diphenyl(piperidin-3-yl)methanol	Pipradrol 3-isomer
10.11.4	Diphenyl(piperidin-4-yl)methanol	Azacyclanol, Pipradrol 4-isomer
10.11.5	Diphenylmethylpiperidine	Desoxypipradrol, 2-DPMP
10.11.6	Diphenyl-2-pyrrolidinemethanol	Diphenylprolinol, D2PM
10.11.7	2-Diphenylmethylpyrrolidine	Desoxy-D2PM

Ref	Substance	Other names
10.12	Plant chemicals	
10.12.1	Arecoline	
10.12.2	Cathine	
10.12.3	Dihydrokavain	
10.12.4	Glaucine	
10.12.5	Harmaline	
10.12.6	Harmine	
10.12.7	Harmine-D3	
10.12.8	Tetrahydroharmine	
10.12.9	Harmalol	
10.12.10	Hordenine	
10.12.11	Ibogaine	
10.12.12	Ibotenic acid	(pro-drug for muscimol)
10.12.13	Kavain	
10.12.14	Methysticin	
10.12.15	Mitragynine	
10.12.16	Mitragynine-D3	
10.12.17	7-Hydroxymitragynine	
10.12.18	Muscarine	
10.12.19	Muscimol	
10.12.20	Paynantheine	Kratom alkaloid
10.12.21	Salvinorin A	
10.12.22	Salvinorin A-D3	
10.12.23	Salvinorin A-13C2-D3	
10.12.24	Salvinorin B	
10.12.25	Salvinorin B ethoxymethyl ester	
10.12.26	Scopolamine	
10.12.27	Scopolamine-D3	
10.12.28	Speciogynine	Kratom component, diastereoisomer of mitragynine
10.12.29	Speciociliatine	Kratom component, stereoisomer of mitragynine
10.12.30	Yangonin	
10.12.31	Desmethoxyyangonin	
10.12.32	Yohimbine	

Ref	Substance	Other names
10.13	Carbolines	
10.13.1	Norharmane	β -Caroline

Ref	Substance	Other names
10.13.2	Harmane	1-Me- β -Caroline
10.13.3	Harmol	7-OH-1-Me- β -Caroline
10.13.4	9-Me- β -caroline	
10.13.5	Cordysinin	1-(9H- β -carolin-1-yl)ethanol
10.14	Materials with alcohol-like effects	
10.14.1	GHB	gamma-Hydroxybutyrate
10.14.2	GHB-D6	
10.14.3	GHB-13C- 2	
10.14.4	4-Me-GHB	gamma-Hydroxy valeric acid, 4-OH pentanoic acid
10.14.5	GBL (pro-drug for GHB)	gamma-Butyrolactone
10.14.6	GBL-D6	
10.14.7	GVL (pro-drug for GHV)	gamma-Valerolactone
10.14.8	R-GVL, (+)-GVL	
10.14.9	1,4-BD	1,4-Butanediol
10.14.10	2M2B	2-Methyl-2-butanol
10.14.11	Methylpentynol	3-Methylpent-1-yn-3-ol

Ref	Substance	Other names
10.15	Indanes	
10.15.1	1-Aminoindane	
10.15.2	2-Aminoindane	2-AI
10.15.3	5-Aminoindane	5-AI
10.15.4	N-Methyl-2-aminoindane	NM2-AI
10.15.5	5-Iodoaminoindane	5-IAI
10.15.6	4,5-Methylenedioxyaminoindane	
10.15.7	5,6-Methylenedioxyaminoindane	MDAI
10.15.8	N-Methyl-5,6-methylenedioxy-2-aminoindane	MDMAI
10.15.9	5-Methoxy-2-aminoindane	5-MeO-2AI
10.15.10	5-Methoxy-6-methyl-2-aminoindane	MMAI
10.15.11	6,7-MDO-1,2,3,4-tetrahydroisoquinoline	TDIQ
10.15.12	Methylenedioxyaminotetralin	MDAT

Ref	Substance	Other names
10.16	Thiophene analogues of amphetamines	
10.16.1	alpha-Methyl-2-thiopheneethanamine	Thienoamphetamine; Thiopropamine
10.16.2	1-(Thiophen-2-yl)-2-methylaminopropane.HCl	Methiopropamine, MPA
10.16.3	1-(Thiophen-3-yl)-2-methylaminopropane.HCl	Methiopropamine 3' isomer, 3-MPA
10.16.4	1-(5-Methyl-thiophen-2-yl)-2-methylaminopropane	Mephedrene, 5-Me-MPA, 5-MMPA
10.16.5	N-Ethyl-a-methyl-2-thiopheneethanamine	Ethiopropamine

Ref	Substance	Other names
10.17	Benzofuran analogue of tryptamine	
10.17.1	5-Methoxy-di-isobutyl-benzofuran	5-MeO DiBF

Ref	Substance	Other names
10.18	Aminorex-related materials	
10.18.1	4-Methylaminorex	
10.18.2	4,4'-Dimethylaminorex	4,4'-DMAR, 'Serotonin'
10.18.3	4-Methyl-4'-fluoroaminorex	4'-F-4-MeAminorex; para-Fluoro-4-methylaminorex

Ref	Substance	Other names
10.19	Octodrine-related materials	
10.19.1	1,3-Dimethylbutylamine	1,3-DMBA
10.19.2	1,3-Dimethylamylamine	Methylhexanamine, DMAA, Geranamine
10.19.3	Dimethylamylamine-D4	
10.19.4	1,4-Dimethylpentylamine	5-Me-2-hexanamine
10.19.5	1,5-Dimethylhexylamine	Octodrine

Ref	Substance	Other names
10.20.1	5-(2-Aminopropyl)indole	5-API, 5-IT
10.20.2	6-(2-Aminopropyl)indole	6-API, 6-IT
10.20.3	2-Aminotetralin	2A-T
10.20.4	Bromantane	
10.20.5	Diclofensine	
10.20.6	Memantine	
10.20.7	Mephtetramine	MTTA
10.20.8	Methamnetamine	
10.20.9	Methylenedioxymethamphetamine	MDAT
10.20.10	Methoxypiperamide	MeOP, MEXP
10.20.11	N-Me-N-(4-Me-phenyl)-2-Me-propanamide	2-NMC
10.20.12	Nefiracetam	
10.20.13	NSI-189	
10.20.14	RH-34, 3-[2-(2-Methoxybenzylamino)ethyl]-1-H-quinazoline-2,4-dione	5HT2A agonist, Ketanserin with -NBOMe on N
10.20.15	Xylazine	

Ref	Substance	Other names
11.0	Aryl Cyclohexylamines	
11.1	Phencyclidine	PCP
11.2	Phencyclidine-D5	
11.3	3-Hydroxy-phencyclidine	3-OH-PCP (OH on phenyl ring)
11.4	3-Methyl phencyclidine	3-Me-PCP
11.5	3-Methoxy phencyclidine	3-MeO-PCP
11.6	3-Methoxy phencyclidine-D3	
11.7	3-Fluoro phencyclidine	3F-PCP
11.8	3-Chloro phencyclidine	3Cl-PCP
11.9	3-Hydroxyphencyclidine	
11.10	3-Hydroxyphencyclidine-D10	
11.11	4-Hydroxyphencylidine	4-OH-PCP(OH on phenyl ring)
11.12	4-Methyl phencyclidene	4-Me-PCP
11.13	4-Methoxy phencyclidine	4-MeO-PCP
11.14	4-Methoxy phencyclidine-D4	

Ref	Substance	Other names
11.15	4-Hydroxymethyl phencyclidine	4-HO-Me-PCP
11.16	3,4-Methylenedioxy phencyclidine	3,4-MDO-PCP
11.17	1-(1-Phenylcyclohexyl)-4-hydroxypiperidine	4-OH-PCP, PHP(OH on piperidine ring)
11.18	trans-4-Phenyl-4-piperidinocyclohexanol	PCHP, 4-PPC (PCP metabolite)
11.19	N-Ethylphenylcyclohexylamine	Etycyclidine, PCE
11.20	3-Hydroxy eticyclidine	3-OH PCE
11.21	3-Methoxy eticyclidine	3-MeO-PCE
11.22	4-Methoxy eticyclidine	4-MeO-PCE
11.23	2-Fluoro-2-oxo-eticyclidine	2F-2-oxo-PCE
11.24	N-Propyl-1-phenylcyclohexylamine	PCPr, Phencyclamine
11.25	N-(3-Methoxypropyl)-1-phenylcyclohexylamine	PCMPA
11.26	N-(2-Ethoxyethyl)-1-phenylcyclohexanamine	PCEEAA
11.27	4-(1-(3-Methoxyphenyl)cyclohexyl)morpholine	3-MeO-PCM
11.28	Benocyclidine	Benzothiophenylcyclohexylpiperidine, BTCP
11.29	Benocyclidine-D10	BTCP-D10
11.30	Ketamine	
11.31	Ketamine-D3	N-Me D3
11.32	Ketamine-D4	
11.33	Ketamine-D6	
11.34	(S)-Ketamine	
11.35	(R)-Ketamine	
11.36	N-Boc ketamine	
11.37	2-Methoxyketamine	2-MK
11.38	Cyclopentyl phenylmethanone	Ketamine precursor
11.39	Norketamine	
11.40	Norketamine-D4	
11.41	(R)-Norketamine	(+)-Norketamine
11.42	(S)-Norketamine	(-)Norketamine
11.43	Dehydronorketamine	
11.44	Dehydronorketamine-D4	
11.45	N-Ethylnorketamine	NEK
11.46	N-Propynorketamine	
11.47	N-Boc-norketamine	
11.48	Hydroxynorketamine	
11.49	Deschloroketamine	
11.50	Deschloro-N-ethyl-ketamine	
11.51	2-Fluoro deschloroketamine	F replaces Cl
11.52	3-Fluoro deschloroketamine	
11.53	4-Fluoro deschloroketamine	
11.54	2-Bromo deschloroketamine	
11.55	2-Fluorophenyl cyclopentylmethanone	Precursor for 2-F ketamine
11.56	Deschloronorketamine	Cl lost and NH-CH3 becomes NH2
11.57	2-Fluoro deschloronorketamine	F replaces Cl and NH-CH3 becomes NH2
11.58	2-(2-Cl-phenyl)-2-OH-cyclohexanone	(Ketamine impurity)
11.59	Methoxetamine	2-(3-MeO-phenyl)-2(Etamino)-cyclohexanone, MXE

Ref	Substance	Other names
11.60	Methoxetamine-D3	
11.61	Methoxmetamine	MMXE ; N-methyl replaces N-ethyl
11.62	Deoxymethoxetamine	DMXE, Me- replaces MeO-
11.63	Hydroxetamine	HO- replaces MeO-
11.64	Fluorexetamine	F- replaces MeO-
11.65	Normethoxetamine	N-Desethyl
11.66	Methoxpropamine	Methoxetamine with N-Pr for N-Et
11.67	Methoxisopropamine	Methoxetamine with N-iPr for N-Et
11.68	Tiletamine	
11.69	Tiletamine-D5	
11.70	Rolicyclidine	PCPy
11.71	Rolicyclidine-D5	
11.72	3-Me-rolicyclidine	3-Me-PCPy
11.73	3-MeO-rolicyclidine	3-MeO-PCPy
11.74	Tenocyclidine	TCP
11.75	Tenocyclidine-D10	

12.0	Fentanyl	
12.1	Precursors and impurities	
12.1.1	4-Piperidone	
12.1.2	3-Anilopiperidine	
12.1.3	4-Anilopiperidine	
12.1.4	4F-4-Anilopiperidine	para-F-4AP
12.1.5	4-Anilo-1-Boc-piperidine, N-Boc-4-AP	precursor for 4-ANPP
12.1.6	4-Anilino-1-benzylpiperidine	
12.1.7	N-Benzyl-4-piperidone	
12.1.8	N-Benzyl-3-Me-4-piperidone	
12.1.9	N-Phenethyl-4-piperidone	NPP
12.1.10	N-Phenethyl-4-piperidone-13C6	
12.1.11	N-Phenethyl-N-phenylpropionamide	By-product of fentanyl synthesis
12.1.12	Despropionylfentanyl	4-ANPP
12.1.13	Despropionylfentanyl-D5	
12.1.14	Despropionylfentanyl-13C6	
12.1.15	Despropionyl-ortho-fluorofentanyl (F on aniline ring)	2F-4-ANPP
12.1.16	Despropionyl-meta-fluorofentanyl (F on aniline ring)	3F-4-ANPP
12.1.17	Despropionyl-para-fluorofentanyl (F on aniline ring)	4F-4-ANPP
12.1.18	Despropionyl-meta-chlorofentanyl	3-Cl-ANPP
12.1.19	Despropionyl-para-chlorofentanyl	4-Cl-ANPP
12.1.20	Despropionyl-ortho-Me fentanyl (Me on aniline ring)	2-Me-4-ANPP
12.1.21	Despropionyl-meta-Me fentanyl (Me on aniline ring)	3-Me-4-ANPP
12.1.22	Despropionyl-para-Me fentanyl (Me on aniline ring)	4-Me-4-ANPP
12.1.23	Despropionyl-para-MeO fentanyl (MeO on aniline ring)	4-MeO-4-ANPP
12.1.24	Despropionyl-3-Me-fentanyl (Me on piperidine ring)	3'-Me-4-ANPP
12.1.25	Ethyl 4-ANPP	Ethyl replaces propionyl
12.1.26	Phenethyl 4-ANPP	Phenethyl replaces propionyl

Ref	Substance	Other names
12.1.27	N-Formyl-4-ANPP	
12.1.28	4-Anilino-1-benzylpiperidine	4-ANBP, Benzyl analogue of 4-ANPP
12.1.29	ortho-Fluoro-4-anilino-1-benzylpiperidine	o-F-4-ANBP
12.1.30	meta-Fluoro-4-anilino-1-benzylpiperidine	m-F-4-ANBP
12.1.31	para-Fluoro-4-anilino-1-benzylpiperidine	p-F-4-ANBP
12.1.32	N-Me-ortho-Me-phenyl norfentanyl	Me replaces Phenethyl, 2-Me-phenyl replaces propionyl
12.1.33	N-Me-meta-Me-phenyl norfentanyl	Me replaces Phenethyl, 3-Me-phenyl replaces propionyl
12.1.34	N-Me-para-Me-phenyl norfentanyl	Me replaces Phenethyl, 4-Me-phenyl replaces propionyl
12.1.35	Despropionyl carfentanil	4-Carboxomethoxy ANPP

12.2	Fentanyl and other pharmaceutical fentanyls	
12.2.1	Alfentanils	
12.2.1.1	Alfentanil	4-MeOMe on piperidine & 4-Et-2-Oxo-2-tetrazolin-1-yl ethyl
12.2.1.2	Alfentanil-D3	replacing phenethyl

12.2.2	Carfentanyls	
12.2.2.1	Carfentanil	4-Carboxymethyl on piperidine
12.2.2.2	Carfentanil-D5	
12.2.2.3	Carfentanil-13C6	
12.2.2.4	N-Me carfentanil	
12.2.2.5	Acetyl carfentanil	Acetyl replaces propionyl
12.2.2.6	Acetyl carfentanil-D3	
12.2.2.7	Benzyl carfentanil	Benzyl replaces phenethyl

12.2.3	Fentanyls	
12.2.3.1	Fentanyl	
12.2.3.2	Fentanyl-D5	D5 on N-phenyl ring
12.2.3.3	Fentanyl-D5	D5 on phenethyl ring
12.2.3.4	Fentanyl-13C6	13C6 in aniline ring

12.2.4	Lofentanils	
12.2.4.1	Lofentanil	Carfentanil plus 3-Me on piperidine
12.2.4.2	Lofentanil-D3	
12.2.5	Remifentanils	

12.2.5.1	Remifentanil	Carfentanil with 2-MeO carbonylethyl replacing Phenethyl
12.2.5.2	Remifentanil-13C6	
12.2.5.3	Despropionyl Remifentanil	

12.2.6	Sufentanils	
12.2.6.1	Sufentanil	4-MeOMe on piperidine & 2-Thienylethyl for phenethyl
12.2.6.2	Sufentanil-D3	
12.2.6.3	Sufentanil-D5	

Ref	Substance	Other names
13.0	Derivatives of Fentanyl :	
13.1	Substitution on aniline ring:	
13.1.1	ortho-Methylfentanyl	2-Me Fentanyl
13.1.2	meta-Methylfentanyl	3-Me Fentanyl
13.1.3	para-Methylfentanyl	4-Me Fentanyl
13.1.4	para-Methoxyfentanyl	4-MeO Fentanyl
13.1.5	ortho-Fluorofentanyl	2-Fluorofentanyl
13.1.6	ortho-Fluorofentanyl-13C6	
13.1.7	meta-Fluorofentanyl	3-Fluorofentanyl
13.1.8	para-Fluorofentanyl	4-Fluorofentanyl
13.1.9	para-Fluorofentanyl-D3	
13.1.10	para-Fluorofentanyl-D5	
13.1.11	para-Fluorofentanyl-13C6	13C in phenethyl ring
13.1.12	para-Bromofentanyl	4-Bromofentanyl
13.1.13	ortho-Chlorofentanyl	2-Chlorofentanyl
13.1.14	meta-Chlorofentanyl	3-Chlorofentanyl
13.1.15	para-Chlorofentanyl	4-Chlorofentanyl
13.1.16	2'-Fluoro-ortho-fluorofentanyl	
13.1.17	3'-Fluoro-ortho-fluorofentanyl	

Ref	Substance	Other names
13.2	Substitution on piperidine ring:	
13.2.1	3-Fluorofentanyl	
13.2.2	cis-3-Methylfentanyl	
13.2.3	cis-3-Methylfentanyl-D3	
13.2.4	trans-3-Methylfentanyl	
13.2.5	3-Methylfentanyl-13C6	
13.2.6	β -Hydroxy-3-Methylfentanyl	Ohmefentanyl (β -Hydroxy on phenethyl chain)
13.2.7	β -Hydroxy-3-Methylfentanyl-D3	
13.2.8	2-Hydroxyfentanyl	
13.2.9	2-Hydroxyfentanyl-D5	
13.2.10	2-Oxofentanyl	
13.2.11	2-Oxofentanyl-D5	
13.2.12	4-Methyl fentanyl	
13.2.13	4-Phenylfentanyl	Phenyl replaces 4-carbomethoxy of Carfentanil
13.2.14	2'-Fluoro-ortho-fluoro-cis-3-methylfentanyl	
13.2.15	3'-Fluoro-ortho-fluoro-cis-3-methylfentanyl	
13.2.16	4'-Fluoro-para-fluoro-cis-3-methylfentanyl	
13.2.17	2'-Fluoro-para-fluoro-trans-3-methylfentanyl	
13.2.18	3'-Fluoro-para-fluoro-trans-3-methylfentanyl	
13.2.19	4'-Fluoro-para-fluoro-trans-3-methylfentanyl	

Ref	Substance	Other names
13.3	Opening of piperidine ring	
13.3.1	2,3-seco-Fentanyl	
13.3.2	Diampromide	

Ref	Substance	Other names
13.4	Substitution on phenethyl ring:	
13.4.1	2'-Methyl fentanyl	Me on phenethyl ring
13.4.2	3'-Methyl fentanyl	Me on phenethyl ring
13.4.3	4'-Methyl fentanyl	Me on phenethyl ring
13.4.4	2'-Fluoro fentanyl	F on phenethyl ring
13.4.5	3'-Fluoro fentanyl	F on phenethyl ring
13.4.6	4'-Fluoro fentanyl	F on phenethyl ring
13.4.7	2',3'-DiMeO fentanyl	DiMeO on phenethyl ring
13.4.8	2',4'-DiMeO fentanyl	DiMeO on phenethyl ring
13.4.9	2',5'-DiMeO fentanyl	DiMeO on phenethyl ring
13.4.10	2',6'-DiMeO fentanyl	DiMeO on phenethyl ring
13.4.11	3',4'-DiMeO fentanyl	DiMeO on phenethyl ring
13.4.12	3',5'-DiMeO fentanyl	DiMeO on phenethyl ring
13.4.13	2',5'-DiMeO-4'-Me fentanyl; N-(2C-D) fentanyl	2,5-DiMeO and 4-Me on phenethyl ring
13.4.14	2',5'-DiMeO-4'-Et fentanyl; N-(2C-E) fentanyl	2,5-DiMeO and 4-Et on phenethyl ring
13.4.15	2',5'-DiMeO-4'-Pr fentanyl; N-(2C-P) fentanyl	2,5-DiMeO and 4-Pr on phenethyl ring
13.4.16	2',5'-DiMeO-4'-iPr fentanyl; N-(2C-iPr) fentanyl	2,5-DiMeO and 4-iPr on phenethyl ring
13.4.17	2',5'-DiMeO-4'-Chloro fentanyl; N-(2C-C) fentanyl	2,5-DiMeO and 4-Cl on phenethyl ring
13.4.18	2',5'-DiMeO-4'-Bromo fentanyl; N-(2C-B) fentanyl	2,5-DiMeO and 4-Br on phenethyl ring
13.4.19	2',5'-DiMeO-4'-Iodo fentanyl; N-(2C-I) fentanyl	2,5-DiMeO and 4-I on phenethyl ring
13.4.20	2',5'-DiMeO-4'-MeS fentanyl; N-(2C-T) fentanyl	2,5-DiMeO and 4-MeS on phenethyl ring
13.4.21	2',5'-DiMeO-4'-EtS fentanyl; N-(2C-T-2) fentanyl	2,5-DiMeO and 4-EtS on phenethyl ring
13.4.22	2',5'-DiMeO-4'-PrS fentanyl; N-(2C-T-7) fentanyl	2,5-DiMeO and 4-PrS on phenethyl ring
13.4.23	2',5'-DiMeO-4'-iPrS fentanyl; N-(2C-T-4) fentanyl	2,5-DiMeO and 4-iPrS on phenethyl ring
13.4.24	2',5'-DiMeO-4'-TriF-Me fentanyl; N-(2C-TFM) fentanyl	2,5-DiMeO and 4-CF3 on phenethyl ring
13.4.25	2',5'-DiMeO-4'-Nitro fentanyl; N-(2C-N) fentanyl	2,5-DiMeO and 4-NO2 on phenethyl ring
13.4.26	2',5'-DiMeO-3',4'-DiMe fentanyl; N-(2C-G) fentanyl	2,5-DiMeO and 3,4-DiMe on phenethyl ring
13.4.27	2'-3',5'-6'-Di-tetrahydrofuranyl-8'-Br fentanyl; 2CB-fly fentanyl	

Ref	Substance	Other names
13.5	Substitution on phenethyl chain:	
13.5.1	alpha-Methylfentanyl	
13.5.2	alpha-Methylfentanyl-D3	
13.5.3	alpha-Methylfentanyl-13C6	
13.5.4	alpha-Dimethylfentanyl; Phentermine fentanyl	
13.5.5	beta-Hydroxyfentanyl	
13.5.6	beta-Hydroxyfentanyl-D3	
13.5.7	beta-Methylfentanyl	
13.6	Substitution on phenethyl chain and ring:	
13.6.1	N-(2,5-DMA) fentanyl	alpha-Me on chain and 2,5-DiMeO on ring
13.6.2	N-(DOM) fentanyl	alpha-Me on chain and 2,5-DiMeO-4-Me on ring
13.6.3	N-(DOET) fentanyl	alpha-Me on chain and 2,5-DiMeO-4-Et on ring
13.6.4	N-(DOB) fentanyl	alpha-Me on chain and 2,5-DiMeO-4-Bu on ring
13.6.5	N-(DOC) fentanyl	alpha-Me on chain and 2,5-DiMeO-4-Cl on ring
13.6.6	N-(DOB) fentanyl	alpha-Me on chain and 2,5-DiMeO-4-Br on ring

Ref	Substance	Other names
13.6.7	N-(DOI) fentanyl	alpha-Me on chain and 2,5-DiMeO-4-I on ring
13.6.8	N-(MDA) fentanyl	alpha-Me on chain and 3,4-MDO on ring
13.6.9	N-(2-APB) fentanyl	alpha-Me on chain and benzofuran-2-yl for phenyl
13.6.10	N-(6-APB) fentanyl	alpha-Me on chain and benzofuran-6-yl for phenyl
13.6.11	N-(6-APDB) fentanyl	alpha-Me on chain and 2,3-dihydrobenzofuran-6-yl for phenyl
13.6.12	N-(3C-B fly) fentanyl	alpha-Me on chain and di(tetrahydrofuran-4-yl) + 4-Br on ring

13.7	Replacement of phenethyl group (NOTE: for norfentanyl, see later)	
13.7.1	Benzyl fentanyl	Benzyl replaces phenethyl
13.7.2	Benzyl fentanyl-D3	
13.7.3	Benzyl fentanyl-13C6	
13.7.4	meta-Fluoro benzyl fentanyl	F on aniline ring
13.7.5	para-Fluoro benzyl fentanyl	F on aniline ring
13.7.6	cis-3-Methyl benzyl fentanyl	3-Me on piperidine ring,
13.7.7	Benzyl carfentanil	Methyl carboxylate at 4 position of piperidine ring
13.7.8	Acetylbenzylfentanyl	
13.7.9	Benzoyl benzylfentanyl	
13.7.10	meta-Fluoro acetyl benzyl fentanyl	Acetyl replaces propionyl and F on aniline ring
13.7.11	Benzyl acryl fentanyl	Acryl replaces propionyl
13.7.12	Benzyl benzoyl fentanyl	Benzoyl replaces propionyl
13.7.13	Benzyl furanyl fentanyl	Furanyl replaces propionyl
13.7.14	p-Fluoro isopropyl benzyl fentanyl	Isopropyl replaces propionyl and F on aniline ring
13.7.15	m-Fluoro cyclopropyl benzyl fentanyl	Cyclopropyl replaces propionyl and F on aniline ring
13.7.16	p-Fluoro cyclopropyl benzyl fentanyl	Cyclopropyl replaces propionyl and F on aniline ring
13.7.17	N-(3-Ethylindole)fentanyl	Indol-3-ylethyl replaces phenethyl
13.7.18	Furanylethylfentanyl	Furanylethyl replaces phenethyl
13.7.19	Thienyl fentanyl	Thienylmethyl replaces phenethyl
13.7.20	Thienyl fentanyl-D3	
13.7.21	Thiofentanyl	Thienylethyl replaced phenethyl
13.7.22	Thiofentanyl-D3	
13.7.23	cis-3-Methylthiofentanyl	
13.7.24	trans-3-Methylthiofentanyl	
13.7.25	trans-3-Methylthiofentanyl-D3	
13.7.26	alpha-Methylthiofentanyl	
13.7.27	beta-Hydroxythiofentanyl	
13.7.28	beta-Hydroxythiofentanyl-D3	
13.7.29	beta-Hydroxythiofentanyl-D5	
13.7.30	beta-Hydroxythiofentanyl-13C6	
13.7.31	beta-Hydroxythioacetyl fentanyl	Acetyl replaces propionyl

13.8	Substitution on propionyl group:	
13.8.1	alpha-Chlorofentanyl	Cl on C adjacent to terminal C of propionyl
13.8.2	alpha-Chlorofentanyl-D5	

Ref	Substance	Other names
13.8.3	alpha-MeO fentanyl	MeO on C adjacent to terminal C of propionyl
13.8.4	omega-Hydroxyfentanyl	OH on terminal C of propionyl
13.8.5	omega-Hydroxyfentanyl-D5	
13.8.6	omega-1-Hydroxyfentanyl	OH on C adjacent to terminal C of propionyl
13.8.7	omega-1-Hydroxyfentanyl-D5	

13.9	Replacement of propionyl group:	
13.9.1	Acetyl fentanyl	
13.9.1.1	Acetyl fentanyl	
13.9.1.2	Acetyl fentanyl-D3	
13.9.1.3	Acetyl fentanyl-D5	
13.9.1.4	Acetyl fentanyl -13C6	
13.9.1.5	2'-Me Acetyl fentanyl	2-Me on phenylethyl ring
13.9.1.6	3'-Me Acetyl fentanyl	3-Me on phenylethyl ring
13.9.1.7	4'-Me Acetyl fentanyl	4-Me on phenylethyl ring
13.9.1.8	Acetyl fentanyl, 4'-Me (on phenylethyl) analogue-D5	
13.9.1.9	4'-Me Acetyl fentanyl-13C6	
13.9.1.10	ortho-Me Acetyl fentanyl	2-Me on phenyl ring
13.9.1.11	ortho-Me Acetyl fentanyl-13C6	
13.9.1.12	meta-Me Acetyl fentanyl	
13.9.1.13	para-Me Acetyl fentanyl	
13.9.1.14	para-Me Acetyl fentanyl-13C6	
13.9.1.15	para-F Acetyl fentanyl	
13.9.1.16	para-Cl Acetyl fentanyl	
13.9.1.17	para-MeO Acetyl fentanyl	
13.9.1.18	alpha-Methyl acetyl fentanyl	Me on phenethyl chain
13.9.1.19	alpha-Methyl acetyl fentanyl-D3	
13.9.1.20	beta-Methyl acetyl fentanyl	

13.9.2	Acrylfentanyl	
13.9.2.1	Acrylfentanyl (Acryloyl fentanyl)	
13.9.2.2	Acrylfentanyl-D5	
13.9.2.3	Acrylfentanyl-13C6	
13.9.2.4	ortho-Me acrylfentanyl	
13.9.2.5	para-Me acrylfentanyl	
13.9.2.6	para-MeO-acrylfentanyl	
13.9.2.7	ortho-Fluoro acrylfentanyl	
13.9.2.8	meta-Fluoro acrylfentanyl	
13.9.2.9	para-Fluoro acrylfentanyl	
13.9.2.10	para-Cl acrylfentanyl	
13.9.2.11	3,3-Dimethylacrylfentanyl	Senecioyl fentanyl
13.9.2.12	Acryl benzylfentanyl	(benzyl replaces phenethyl)

Ref	Substance	Other names
13.9.3	Benzodioxole fentanyls	
13.9.3.1	Benzodioxole fentanyl	Methylenedioxyphenyl fentanyl
13.9.3.2	Benzodioxole fentanyl-D5	
13.9.3.3	2,3-Benzodioxole fentanyl	
13.9.4	Benzoyl fentanyls	
13.9.4.1	Benzoyl fentanyl	Phenyl fentanyl
13.9.4.2	Benzoyl fentanyl-D5	
13.9.4.3	Benzoyl fentanyl-13C6	
13.9.5	Butyryl fentanyls	
13.9.5.1	Butyryl fentanyl	
13.9.5.2	Butyryl fentanyl-D5	
13.9.5.3	Butyryl fentanyl-13C6	
13.9.5.4	α -Methyl-butyryl fentanyl	
13.9.5.5	cis-3-Methyl-butyryl fentanyl	
13.9.5.6	para-Me-butyryl fentanyl	
13.9.5.7	ortho-MeO-butyryl fentanyl	
13.9.5.8	para-MeO-butyryl fentanyl	
13.9.5.9	para-MeO-butyryl fentanyl-D7	
13.9.5.10	para-MeO-butyryl fentanyl-13C6	
13.9.5.11	para-Chlorobutyrylfentanyl	
13.9.5.12	ortho-Fluorobutyrylfentanyl	2-FBF
13.9.5.13	meta-Fluorobutyrylfentanyl	3-FBF
13.9.5.14	para-Fluorobutyrylfentanyl	4-FBF
13.9.5.15	para-Fluorobutyrylfentanyl-D7	
13.9.5.16	para-Fluorobutyrylfentanyl-13C6	13C in phenethyl ring
13.9.5.17	para-Hydroxybutyryl fentanyl	
13.9.5.18	2-Methylbutyryl fentanyl	2-Me on butyryl chain
13.9.6	Isobutyryl fentanyls	
13.9.6.1	Isobutyryl fentanyl	iBF
13.9.6.2	Isobutyryl fentanyl-D5	
13.9.6.3	Isobutyryl fentanyl-13C6	
13.9.6.4	para-Chloroisobutyrylfentanyl	4-Cl-iBF
13.9.6.5	para-Chloroisobutyrylfentanyl-13C6	
13.9.6.6	ortho-Fluoroisobutyrylfentanyl	2-F-iBF
13.9.6.7	meta-Fluoroisobutyrylfentanyl	3-F-iBF
13.9.6.8	para-Fluoroisobutyrylfentanyl	4-F-iBF
13.9.6.9	para-Fluoroisobutyrylfentanyl-D7	
13.9.6.10	para-Fluoroisobutyrylfentanyl-13C6	
13.9.6.11	para-Methylisobutyrylfentanyl	

Ref	Substance	Other names
13.9.7	Crotonyl fentanyls	
13.9.7.1	Crotonyl fentanyl	
13.9.7.2	Crotonyl fentanyl-D5	
13.9.7.3	Crotonyl fentanyl-13C6	
13.9.7.4	para-F-crotonyl fentanyl	
13.9.7.5	2-Me crotonyl - see Tigloyl Fentanyl	
13.9.7.6	3-Me crotonyl fentanyl - see 3,3-DiMe Acryl fentanyl	
13.9.8	Cyclobutyl fentanyls	
13.9.8.1	Cyclobutyl fentanyl	
13.9.8.2	Cyclobutyl fentanyl-D5	
13.9.8.3	para-Chlorocyclobutyl fentanyl	
13.9.9	Cyclopentyl fentanyls	
13.9.9.1	Cyclopentyl fentanyl	
13.9.9.2	Cyclopentyl fentanyl-D5	
13.9.9.3	Cyclopentyl fentanyl-13C6	
13.9.9.4	para-Me cyclopentyl fentanyl	
13.9.9.5	para-F cyclopentyl fentanyl	
13.9.9.6	para-Cl cyclopentyl fentanyl	
13.9.10	Cyclopentenyl fentanyls	
13.9.10.1	Cyclopentenyl fentanyl	
13.9.11	Cyclopropylacetyl fentanyls	
13.9.11.1	Cyclopropylacetyl fentanyl	
13.9.12	Cyclopropyl fentanyls	
13.9.12.1	Cyclopropyl fentanyl	
13.9.12.2	Cyclopropyl fentanyl-D5	
13.9.12.3	Cyclopropyl fentanyl-13C6	13C in aniline ring
13.9.12.4	para-Fluorocyclopropylfentanyl	
13.9.12.5	para-Chlorocyclopropyl fentanyl	
13.9.12.6	ortho-Me cyclopropylfentanyl	
13.9.12.7	meta-Me cyclopropylfentanyl	
13.9.12.8	para-Me cyclopropylfentanyl	
13.9.12.9	2,2,3,3-TetraMe Cyclopropyl fentanyl	
13.9.13	Cyclohexylfentanyls	
13.9.13.1	Cyclohexylfentanyl	
13.9.13.2	Cyclohexylfentanyl-D5	
13.9.13.3	Cyclohexylfentanyl-13C6	

Ref	Substance	Other names
13.9.14 Ethoxyacetyl fentanyl		
13.9.14.1	Ethoxyacetyl fentanyl	
13.9.15 Fentanyl formates		
13.9.15.1	Fentanyl methylcarbamate	N-(Methylmethanoic)-despropionylfentanyl
13.9.15.2	Fentanyl carbamate; Ethylformate fentanyl	N-(Ethylmethanoic)-despropionylfentanyl
13.9.16 Furanyl fentanyl		
13.9.16.1	Furanyl fentanyl	
13.9.16.2	Furanyl fentanyl-D5	
13.9.16.3	Furanyl fentanyl-13C6	13C in aniline ring
13.9.16.4	ortho-Me furanyl fentanyl (2-Me phenyl analogue)	
13.9.16.5	meta-Me furanyl fentanyl (3-Me phenyl analogue)	
13.9.16.6	para-Me furanyl fentanyl (4-Me phenyl analogue)	
13.9.16.7	ortho-MeO furanyl fentanyl	
13.9.16.8	meta-MeO furanyl fentanyl	
13.9.16.9	para-MeO furanyl fentanyl	
13.9.16.10	ortho-F furanyl fentanyl (2-F phenyl analogue)	
13.9.16.11	meta-F furanyl fentanyl (3-F phenyl analogue)	
13.9.16.12	para-F furanyl fentanyl (4-F phenyl analogue)	
13.9.16.13	para-Cl furanyl fentanyl	
13.9.16.14	para-Cl furanyl fentanyl-13C6	
13.9.16.15	ortho-iPr furanyl fentanyl	
13.9.16.16	3-Furanyl fentanyl (3-furan positional isomer)	
13.9.16.17	3-Furanyl fentanyl (3-furan positional isomer)-D5	
13.9.16.18	ortho-F 3-furanyl fentanyl (3-furan positional isomer)	
13.9.16.19	meta-F 3-furanyl fentanyl (3-furan positional isomer)	
13.9.16.20	para-F 3-furanyl fentanyl (3-furan positional isomer)	
13.9.16.21	para-Cl 3-furanyl fentanyl (3-furan positional isomer)	
13.9.17 Fentanyl methylcarbamates (see Fentanyl formates)		
13.9.18	Hexanoyl fentanyl	
13.9.18.1	Hexanoyl fentanyl	
13.9.19 Heptanoyl fentanyl		
13.9.19.1	Heptanoyl fentanyl	
13.9.20 Methacrylfentanyl		
13.9.20.1	Methacrylfentanyl	
13.9.21 Methoxyacetyl fentanyl		
13.9.21.1	Methoxyacetyl fentanyl	

Ref	Substance	Other names
13.9.21.2	Methoxyacetyl fentanyl-D5	
13.9.21.3	Methoxyacetyl fentanyl-13C6	
13.9.21.4	ortho-Me-methoxyacetyl fentanyl	Me on phenyl ring
13.9.21.5	meta-Me-methoxyacetyl fentanyl	
13.9.21.6	para-Me-methoxyacetyl fentanyl	
13.9.21.7	ortho-Fluoro-methoxyacetyl fentanyl	Ocfentanil
13.9.21.8	ortho-Fluoro-methoxyacetyl fentanyl-D3	
13.9.21.9	ortho-Fluoro-methoxyacetyl fentanyl-D5	
13.9.21.10	ortho-Fluoro-methoxyacetyl fentanyl-13C6	
13.9.21.11	meta-Fluoromethoxyacetyl fentanyl	
13.9.21.12	para-Fluoromethoxyacetyl fentanyl	
13.9.21.13	para-Chloromethoxyacetyl fentanyl	
13.9.22	Ocfentanil: see ortho-Fluoro-methoxyacetyl fentanyl	
13.9.23	Phenyl fentanyl	
13.9.23.1	Phenyl fentanyl	(Benzoyl replaces propionyl)
13.9.23.1	Phenyl fentanyl-D5	
13.9.23.1	ortho-Me phenyl fentanyl	Me on phenyl ring (not benzoyl)
13.9.24	Phenylacetyl fentanyl	
13.9.24.1	Phenylacetyl fentanyl	
13.9.25	Phenoxyacetyl fentanyl	
13.9.25.1	Phenoxyacetyl fentanyl	
13.9.26	Phenylpropionyl fentanyl	
13.9.26.1	3-Phenylpropionyl fentanyl	β' -phenyl fentanyl
13.9.27	Pivaloyl fentanyl	
13.9.27.1	Pivaloyl fentanyl	(2,2-DiMe propionyl)
13.9.28	Pyruvyl fentanyl	
13.9.28.1	Pyruvyl fentanyl	
13.9.28.2	Pyruvyl fentanyl-D5	
13.9.29	Tetrahydrofuranyl fentanyl	
13.9.29.1	Tetrahydrofuran fentanyl	
13.9.29.2	Tetrahydrofuran fentanyl-D5	
13.9.29.3	Tetrahydrofuran fentanyl-13C6	
13.9.29.4	para-Fluoro tetrahydrofuran fentanyl	
13.9.29.5	para-Me tetrahydrofuran fentanyl	
13.9.29.6	para-MeO tetrahydrofuran fentanyl	

Ref	Substance	Other names
13.9.30	Tetramethylcyclopropyl fentanyl	
13.9.30.1	2,2,3,3-TetraMe Cyclopropyl fentanyl	
13.9.30.2	2,2,3,3-TetraMe Cyclopropyl fentanyl-D5	
13.9.30.3	2,2,3,3-TetraMe Cyclopropyl fentanyl-13C6	
13.9.31	Tetrahydrothiophene fentanyl	
13.9.31.1	Tetrahydrothiophene fentanyl	
13.9.32	Thiophene fentanyls; Thiofuranyl fentanyls	
13.9.32.1	2-Thiophene fentanyl	
13.9.32.2	2-Thiophene fentanyl-D5	
13.9.32.3	2-Thiophene fentanyl-13C6	
13.9.32.4	3-Thiophene fentanyl	
13.9.33	Tigloyl fentanyls	
13.9.33.1	Tigloyl fentanyl	2-Me-but-2-enamide
13.9.34	Toluoyl fentanyl	
13.9.34.1	para-Toluoyl fentanyl	
13.9.35	Urea fentanyls	
13.9.35.1	Urea fentanyl	N,N-Di-Methylamido-despropionyl fentanyl
13.9.36	Valeryl fentanyls	
13.9.36.1	Valeryl fentanyl	Pentanoyl fentanyl
13.9.36.2	Valeryl fentanyl-D5	
13.9.36.3	Valeryl fentanyl-D9	
13.9.36.4	Valeryl fentanyl-13C6	
13.9.36.5	ortho-Fluoro valeryl fentanyl	2-F on phenyl ring
13.9.36.6	meta-Fluoro valeryl fentanyl	3-F on phenyl ring
13.9.36.7	para-Fluoro valeryl fentanyl	4-F on phenyl ring
13.9.36.8	para-Chloro valeryl fentanyl	
13.9.36.9	para-MeO valeryl fentanyl	
13.9.37	Isovaleryl fentanyls	
13.9.37.1	Isovaleryl fentanyl	
14.0	Mixed fentanyl standards	
14.1	6 Fentanyls + U47700	F+ Acetyl, Acryl, Butyl, Cyclopropyl & Furanyl
14.2	6 Fentanyls + U48800 and U49900	FiB, o-F, 3-Me, MeOAcetyl, cyclopentyl, THF
14.3	7 Fentanyls, each @ 100 ug/ml	F+ Acetyl, Acryl, Butyl, ,4-ClBF, Furanyl & OcF
14.4	13 fentanyls + W15 & W18, each @ 100ug/ml	

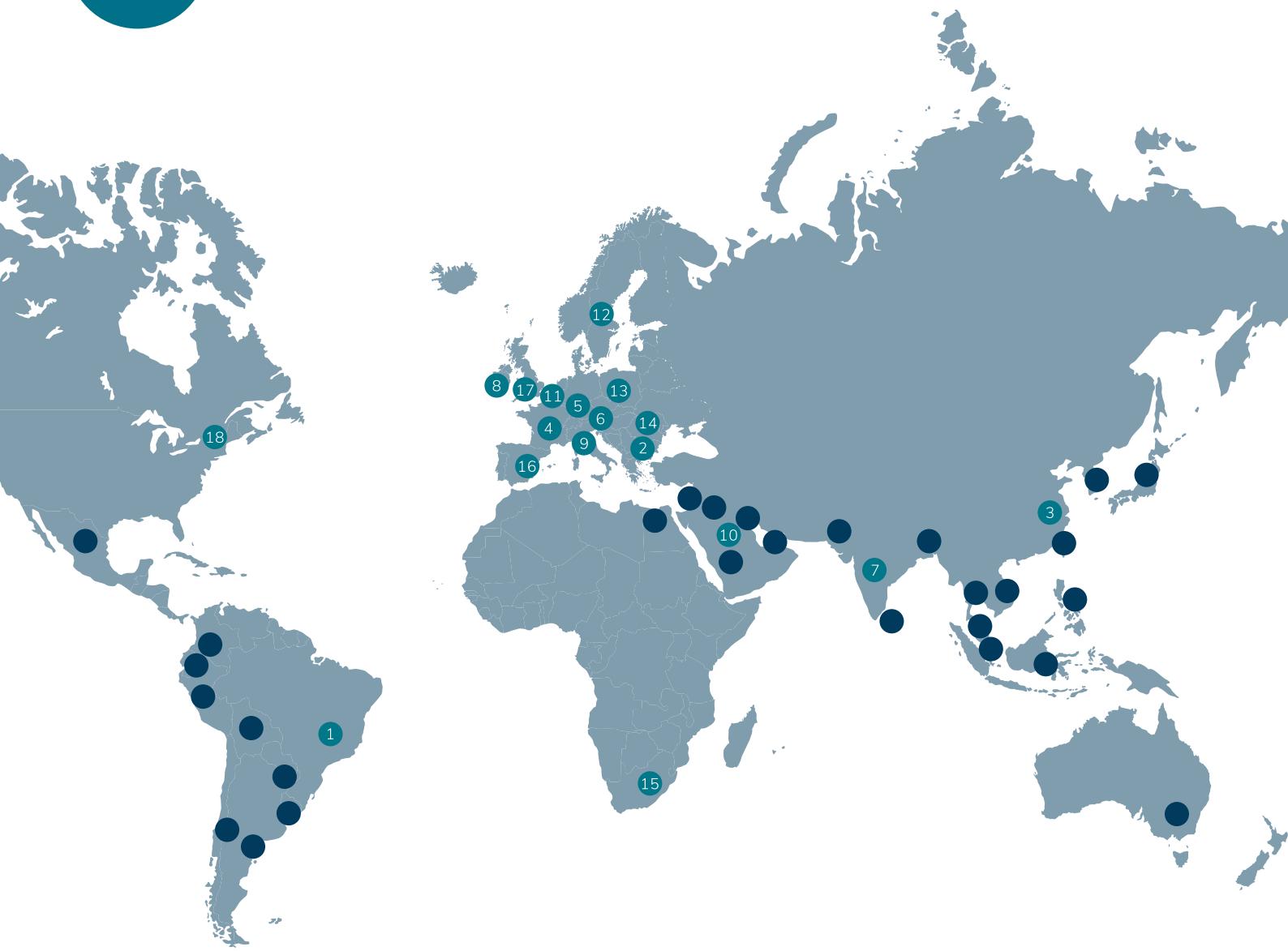
Ref	Substance	Other names
15.0	Norfentanyl metabolites (loss of phenethyl chain, or equiv)	
15.1	Acetyl norfentanyl	
15.2	Acetyl norfentanyl-D5	
15.3	Acetyl norfentanyl-13C6	
15.4	Butyryl norfentanyl	
15.5	Isobutyryl norfentanyl	
15.6	Cyclopropyl norfentanyl	
15.7	N-Me cyclopropyl norfentanyl	
15.8	para-Fluoro norfentanyl	
15.9	Furanyl norfentanyl	
15.10	omega-1-Hydroxynorfentanyl	
15.11	omega-1-Hydroxynorfentanyl-D5	
15.12	Methoxyacetyl norfentanyl	
15.13	cis-3-Methylnorfentanyl	
15.14	trans-3-Methylnorfentanyl	
15.15	Norcarfentanyl	
15.16	Norcarfentanyl-13C6	
15.17	N-Me-Norcarfentanyl	
15.18	Noralfentanyl	
15.19	Norfentanyl	
15.20	Norfentanyl-D3	
15.21	Norfentanyl-D5	
15.22	Norfentanyl-13C6	
15.23	N-Me-norfentanyl	
15.24	Norlofentanyl	
15.25	Norlofentanyl-D3	
15.26	Normethylfentanyl	
15.27	Normethylfentanyl-D3	
15.28	N-Me-Norremifentanil	
15.29	Norsulfentanil	
15.30	Norsulfentanil-D3	
16.0	4'-Hydroxy metabolites (hydroxy on phenethyl ring)	
16.1	4'-Hydroxyfentanyl	
16.2	4'-Hydroxyacetyl fentanyl	
16.3	4'-Hydroxyacrylfentanyl	
16.4	4'-Hydroxybenzoylfentanyl	
16.5	4'-Hydroxybutyrylfentanyl	
16.6	4'-Hydroxycyclohexylfentanyl	
16.7	4'-Hydroxycyclopropylfentanyl	
16.8	4'-Hydroxyfuranyl fentanyl	
16.9	4'-Hydroxymethoxyacetyl fentanyl	
16.10	4'-Hydroxytetramethylcyclopropylfentanyl	
16.11	4'-Hydroxyvaleryl fentanyl	

Ref	Substance	Other names
17.0	3'-Methoxy-4'-hydroxy metabolites [MeO and OH on phenethylring]	
17.1	3'-Methoxy-4'-hydroxyacrylfentanyl	
17.2	3'-Methoxy-4'-hydroxybenzoylfentanyl	
17.3	3'-Methoxy-4'-hydroxycyclopropylfentanyl	
17.4	3'-Methoxy-4'-hydroxyfuranyl fentanyl	
17.5	3'-Methoxy-4'-hydroxyisobutrylfentanyl	
17.6	3'-Methoxy-4'-hydroxymethoxyacetyl fentanyl	
17.7	3'-Methoxy-4'-hydroxytetramethylcyclopropylfentanyl	
18.0	Other metabolites	
18.1	Butyryl fentanyl carboxy metabolite	
18.2	Despropionyl-2'F-ortho-F fentanyl	
18.3	Remifentanil acid	
18.4	Valeryl fentanyl carboxy metabolite	
19.0	Other Synthetic opioids	
19.1	N-[(1-dimethylamino)cyclohexylmethyl] benzamide	AH-7563
19.2	3,4-DiCl-N-[(1-dimethylamino)cyclohexylmethyl] benzamide	AH 7921
19.3	AH-7921-D3	
19.4	AH-7921-D6	
19.5	3,4-DiCl-N-[(1-methylamino)cyclohexylmethyl] benzamide	N-Desmethyl AH-7921
19.6	3,4-DiCl-N-[(1-amino)cyclohexylmethyl] benzamide	N,N-Didesmethyl AH-7921
19.7	3,4-DiCl-N-[(1-piperidinyl)cyclohexylmethyl] benzamide	AH-7959
19.8	3,4-DiCl-N-[(1-(4-Me-1-piperazinyl)cyclohexylmethyl] benzamide	AH-8507
19.9	4-Cl-N-[(1-dimethylamino)cyclohexylmethyl] benzamide	AH 8529
19.10	3-Cl-N-[(1-dimethylamino)cyclohexylmethyl] benzamide	AH 8532
19.11	2-Cl-N-[(1-dimethylamino)cyclohexylmethyl] benzamide	AH 8533
19.12	1-Cyclohexyl-4-(1,2-diphenylethyl)piperazine	MT-45, IC6
19.13	1-Cyclohexyl-4-(1,2-diphenylethyl)piperazine-D5	
19.14	1-Cyclohexyl-4-(1,2-diphenylethyl)piperazine-D11	
19.15	(S)-(-)-1-Cyclohexyl-4-(1,2-diphenylethyl)piperazine	S-(-)-MT-45
19.16	(R)-(-)-1-Cyclohexyl-4-(1,2-diphenylethyl)piperazine	R-(-)-MT45
19.17	1-Cyclohexyl-4-(1,2-diphenylethyl)piperazine-D11	
19.18	2F-MT-45	F on phenyl ring
19.19	3F-MT-45	F on phenyl ring
19.20	4F-MT-45	F on phenyl ring
19.21	4-Cl-N-[1-(2-phenylethyl)-2-piperidinylidene] benzene sulphonide	W-15
19.22	4-Cl-N-[1-(2-phenylethyl)-2-piperidinylidene] benzene sulphonide-D4	
19.23	4-Cl-N-[1-(2-(4-nitrophenyl)ethyl)-2-piperidinylidene] benzene sulphonide	W-18
19.24	4-Cl-N-[1-(2-(4-nitrophenyl)ethyl)-2-piperidinylidene] benzene sulphonide-D4	
19.25	4-Cl-N-[2-piperidinylidene] benzene sulphonide	Nor W-15, Nor-W-18, Nor-W-19
19.26	4-Cl-N-[2-piperidinylidene] benzene sulphonide-D4	
19.27	N-(1-(4-Aminophenyl)piperidin-2-ylidene 4-Cl-benzene sulphonamide	W-19
19.28	N-(1-(4-Aminophenyl)piperidin-2-ylidene 4-Cl-benzene sulphonamide-D4	

Ref	Substance	Other names
19.29	N-(1-(4-Aminophenyl)piperidin-2-ylidene benzene sulphonamide	Deschloro W-19
19.30	N-(1-(4-(N-Acetyl)aminophenyl)piperidin-2-ylidene benzene sulphonamide	N-Acetyl W-19
19.31	Tapentadol	
19.32	Tapentadol-D3	
19.33	Tapentadol-D5	
19.34	N-Desmethyl tapentadol	
19.35	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-benzamide	U-47109
19.36	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-Me-benzamide	U-47700
19.37	U-47700-D3	
19.38	U-47700-D6	
19.39	U-47700-13C3-15N2	
19.40	N-(2-Methylaminocyclohexyl)-3,4-dichloro-N-Me-benzamide	N-Desmethyl-U-47700
19.41	N-(2-Methylaminocyclohexyl)-3,4-dichloro-N-Me-benzamide -D3	
19.42	N-(2-Methylaminocyclohexyl)-3,4-difluoro-N-Me-benzamide	3,4-DiF-N-desmethyl-U-47700
19.43	N-(2-Aminocyclohexyl)-3,4-dichloro-N-Me-benzamide	N,N-Didesmethyl-U-47700
19.44	N-(2-Aminocyclohexyl)-3,4-difluoro-N-Me-benzamide	3,4-DiF-N,N-Didesmethyl-U-47700
19.45	N-(2-Dimethylaminocyclohexyl)-3,4-difluoro-N-Me-benzamide	3,4-DiF-U-47700
19.46	N-(2-Methylaminocyclohexyl)-3,4-methylenedioxy-N-Me-benzamide	3,4-Methylenedioxy U-47700
19.47	N-(2-Methylaminocyclohexyl)-3,4-ethylenedioxy-N-Me-benzamide	3,4-Ethylenedioxy U-47700
19.48	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-MeO-benzamide	MeO U-47700
19.49	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-Et-benzamide	Ethyl U-47700
19.50	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-Pr-benzamide	Propyl U-47700
19.51	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-iPr-benzamide	isoPropyl U-47700
19.52	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-iPr-benzamide-13C2,15N	
19.53	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-CycloPr-benzamide	Cyclopropyl U-47700
19.54	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-Ph-benzamide	Phenyl U-47700; 3,4-Dichloro UF-17
19.55	N-(2-Dimethylaminocyclohexyl)-3,4-difluoro-N-Pr-benzamide	3,4-DiF-propyl U47700
19.56	N-(2-Dimethylaminocyclohexyl)-3,4-difluoro-N-iPr-benzamide	3,4-DiF-isoPropyl U-47700
19.57	N-(2-Dimethylaminocyclohexyl)-4-trifluoromethyl-N-Me-benzamide	4-Trifluoromethyl U-47700
19.58	N-(2-Dimethylaminocyclohexyl)-N-Me-2-naphthalenecarboxamide	Naphthyl replaces dichlorophenyl
19.59	4-Br-N-((2-dimethylamino)cyclohexyl)-benzamide	Bromadoline, U-47931E
19.60	4-Br-N-((2-dimethylamino)cyclohexyl)-N-Me-benzamide	N-Me-U-47931E
19.61	4-F-N-((2-dimethylamino)cyclohexyl)-benzamide	4F-U-47931
19.62	4-Cl-N-((2-dimethylamino)cyclohexyl)-N-Me-benzamide	U-48520
19.63	2-(2,4-Dichlorophenyl)-N-(2-dimethylamino)cyclohexyl-N-methylacetamide	U-48800
19.64	2-(2,4-Dichlorophenyl)-N-(2-dimethylamino)cyclohexyl-N-methylacetamide-D3	
19.65	U-48800-13C3-15N2	
19.66	2-(2,4-Difluorophenyl)-N-(2-dimethylamino)cyclohexyl-N-methylacetamide	2,4-DiF-U-48800
19.67	N-(2-Diethylaminocyclohexyl)-3,4-dichloro-N-Me-benzamide	U-49900 (N,N-Di-ethyl analogue of U-47700)
19.68	N-(2-Diethylaminocyclohexyl)-3,4-dichloro-N-Me-benzamide-13C6	
19.69	N-(2-Diethylaminocyclohexyl)-3,4-difluoro-N-Me-benzamide	3,4-DiF-U-49900
19.70	N-(2-(1-Pyrrolodinyl)cyclohexyl)-3,4-dichloro-N-Me-benzeneacetamide	U-50488
19.71	N-(2-(1-Pyrrolodinyl)cyclohexyl)-3,4-dichloro-N-Me-benzeneacetamide-D3	
19.72	N-(2-(1-Pyrrolodinyl)cyclohexyl)-3,4-difluoro-N-Me-benzeneacetamide	3,4-DiF-U-50488
19.73	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-Me-benzeneacetamide	U-51754

Ref	Substance	Other names
19.74	N-(2-Dimethylaminocyclohexyl)-3,4-dichloro-N-Me-benzeneacetamide-D3	
19.75	N-(2-Dimethylaminocyclohexyl)-3,4-difluoro-N-Me-benzeneacetamide	3,4-DiF-U51754
19.76	N-(2-Dimethylaminocyclohexyl)-2-biphenyl-N-methylacetamide	4-Phenyl U-51754
19.77	N-(2-Dimethylaminocyclohexyl)-2-(3,4-ethylenedioxyphenyl)-N-Me-benzeneacetamide	3,4-Ethylenedioxy U-51754
19.78	N-2-(DiMethylaminocyclohexyl)-N-phenylpropionamide	UF-17
19.79	N-2-(DiMethylaminocyclohexyl)-N-phenylfuran-2-carboxamide	Furanyl UF-17
19.80		U-62066, Spiradoline
19.81	4-(4-Br-phenyl)-4-(dimethylamino)-1-(2-phenethyl)cyclohexanol	Bromadol
19.82	Herkinorin	Salvinorin A analogue; μ -opioid agonist
19.83	Dimethylthiambutene	
19.84	Piperidylthiambutene	Piperidyl analogue of UN-controlled N-Me and N-Et forms
19.85	Nitazene	
19.86	Menitazene	Etonitazene with -Me for -OEt
19.87	Propyl nitazene	Etonitazene with -Pr for -OEt
19.88	Metonitazene	Etonitazene with -OMe for -OEt
19.89	Metonitazene-D3	
19.90	Etonitazene	
19.91	Etonitazene-D5	
19.92	Protonitazene	Etonitazene with -OPr for -OEt
19.93	Protonitazene-D7	
19.94	Isotonitazene	Etonitazene with -OiPr for -OEt
19.95	Isotonitazene-D7	
19.96	Isotonitazene-13C6	
19.97	Isotonitazene (uncyclized intermediate)	
19.98	Butonitazene	Etonitazene with -OBu for -OEt
19.99	iso-Butonitazene	
19.100	sec-Butonitazene	
19.101	Flunitazene	
19.102	Clonitazene	
19.103	Ethyleneoxynitazene	THF Nitazene; dihydrobenzofuranyl replaces phenyl
19.104	N-Piperidinyl metonitazene	
19.105	N-Pyrrolidino etonitazene	Etonitazepyne, Etonitazene N-Ets fused to 5-member ring
19.106	N-Piperidinyl etonitazene	Etonitazepipne, Etonitazene N-Ets fused in 6-member ring
19.107	N-Pyrrolidino isotonitazene	
19.108	N-Piperidinyl isotonitazene	
19.109	N-Pyrrolidinyl protonitazene	
19.110	N-Piperidinyl protonitazene	
19.111	N-Desethyl metonitazene	
19.112	N-Desethyl etonitazene	(Etonitazene metabolite)
19.113	N-Desethyl isotonitazene	(Isotonitazene metabolite)
19.114	N-Desethyl isotonitazene imidazolidinone by-product	
19.115	N-Desethyl protonitazene	
19.116	5-Aminoisotonitazene	(Isotonitazene metabolite)
19.117	4'-OH Nitazene	(Isotonitazene metabolite)
19.118	N-Piperidinyl-4'-OH nitazene	

Ref	Substance	Other names
19.119	N-Pyrrolidinyl-4'-OH nitazene	
19.120	Metodesnitazene	Metazene, Metonitazene without -NO2
19.121	Metodesnitazene-D4	
19.122	3'-Methoxy metodesnitazene	so two MeO- on phenyl ring
19.123	N-Pyrrolidinometodesnitazene	
19.124	Etodesnitazene	Etazene, Etonitazene without -NO2
19.125	N-Pyrrolidinoetodesnitazene	
19.126	5-Methyletodesnitazene	Etonitazene with Me- for -NO2
19.127	Protodesnitazene	Protonitazene without -NO2
19.128	Isotodesnitazene	Isotonitazene without -NO2
19.129	Buccinazine	AP-237, 1-Butyroyl-4-cinnamylpiperazine
19.130	2-Me buccinazine	2-Me-AP-237, Me on piperazine ring
19.131	2-Me buccinazine-D7	2-Me-AP-237-D7
19.132	2,6-DiMe buccinazine	AP-238, 2,6-DiMe-AP-237
19.133	4'-Me buccinazine	p-Me-AP-237, Me on phenyl ring
19.134	2-Fluoroviminol	F replaces Cl
19.135	Orphine	Borphine without the Br
19.136	Fluorphine	F for Br
19.137	Chlorophine	Cl for Br
19.138	Brorphine	
19.139	Brorphine-D7	
19.140	Iodorphine	I for Br
19.141	Methyl ketobemidone	Ketobemidone with MeCO- for EtCO-
19.142	Acetoxymethyl ketobemidone	Me ketobemidone with acetoxy on phenyl ring



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