Table S2. Data in the NaPDI Center repository on Cannabis sativa as of

Study unique identifier	Unique identifier	Natural product binomial
NPDI-0mD33A	NPDI-Hko3aA	Cannabis sativa
NPDI-1wiJBw	NPDI-29ER6A	Cannabis sativa
NPDI-1wiJBw	NPDI-2LIXDQ	Cannabis sativa
NPDI-1wiJBw	NPDI-Aasqdw	Cannabis sativa
NPDI-1wiJBw	NPDI-cqaAMA	Cannabis sativa
NPDI-1wiJBw	NPDI-DZj9Zg	Cannabis sativa
NPDI-1wiJBw	NPDI-E7xthw	Cannabis sativa
NPDI-1wiJBw	NPDI-loxesQ	Cannabis sativa
NPDI-1wiJBw	NPDI-lx-KKg	Cannabis sativa
NPDI-1wiJBw	NPDI-jHdxpA	Cannabis sativa
NPDI-1wiJBw	NPDI-mbNW9A	Cannabis sativa
NPDI-1wiJBw	NPDI-mLsAbQ	Cannabis sativa
NPDI-1wiJBw	NPDI-olqNRw	Cannabis sativa
NPDI-1wiJBw	NPDI-oZGcUg	Cannabis sativa
NPDI-1wiJBw	NPDI-PaO28A	Cannabis sativa
NPDI-1wiJBw	NPDI-spUvqw	Cannabis sativa
NPDI-2P3dUg	NPDI-tRoTQw	Cannabis sativa
NPDI-8lgFiA	NPDI-a65Zxg	Cannabis sativa
NPDI-8lgFiA	NPDI-PwGUoQ	Cannabis sativa
NPDI-8lgFiA	NPDI-ypo3GA	Cannabis sativa
NPDI-9V_SXw	NPDI-9kN5_g	Cannabis sativa
NPDI-9V_SXw	NPDI-fw_WMw	Cannabis sativa
NPDI-9V_SXw	NPDI-GEE68Q	Cannabis sativa
NPDI-9V_SXw	NPDI-Z_m2jA	Cannabis sativa
NPDI-ahQtSQ	NPDI-7RWWrg	Cannabis sativa
NPDI-ahQtSQ	NPDI-JnMHww	Cannabis sativa
NPDI-ahQtSQ	NPDI-lNsNoQ	Cannabis sativa
NPDI-ahQtSQ	NPDI-PWUeog	Cannabis sativa
NPDI-ahQtSQ	NPDI-qeGJYg	Cannabis sativa
NPDI-ahQtSQ	NPDI-uUyadQ	Cannabis sativa
NPDI-Asg_wA	NPDI-xU8LWA	Cannabis sativa
NPDI-BvR0Pw	NPDI-6v65qQ	Cannabis sativa
NPDI-BvR0Pw	NPDI-R1QKZg	Cannabis sativa
NPDI-CAApFQ	NPDI-_k7VAQ	Cannabis sativa
NPDI-CAApFQ	NPDI-3Crf-w	Cannabis sativa
NPDI-CAApFQ	NPDI-3EHgSg	Cannabis sativa
NPDI-CAApFQ	NPDI-8HM-ew	Cannabis sativa
NPDI-CAApFQ	NPDI-A4_kwg	Cannabis sativa
NPDI-CAApFQ	NPDI-E2Dy1A	Cannabis sativa
NPDI-CAApFQ	NPDI-egkFFQ	Cannabis sativa
NPDI-CAApFQ	NPDI-es-pWA	Cannabis sativa

NPDI-CAApFQ	NPDI-F14zbg	Cannabis sativa
NPDI-CAApFQ	NPDI-F2AXtQ	Cannabis sativa
NPDI-CAApFQ	NPDI-FGSLRQ	Cannabis sativa
NPDI-CAApFQ	NPDI-ILAq5w	Cannabis sativa
NPDI-CAApFQ	NPDI-k7I3rg	Cannabis sativa
NPDI-CAApFQ	NPDI-L4dcwg	Cannabis sativa
NPDI-CAApFQ	NPDI-PMEwbg	Cannabis sativa
NPDI-CAApFQ	NPDI-QtzrqQ	Cannabis sativa
NPDI-CAApFQ	NPDI-w7jBLw	Cannabis sativa
NPDI-CAApFQ	NPDI-wcUiKQ	Cannabis sativa
NPDI-cM9pfg	NPDI-8Ej-Bg	Cannabis sativa
NPDI-cM9pfg	NPDI-EqzxjQ	Cannabis sativa
NPDI-cM9pfg	NPDI-G8_czw	Cannabis sativa
NPDI-cM9pfg	NPDI-gOdMHw	Cannabis sativa
NPDI-cM9pfg	NPDI-NC4pjQ	Cannabis sativa
NPDI-cM9pfg	NPDI-UlHjqQ	Cannabis sativa
NPDI-d4aGfw	NPDI--0E9EQ	Cannabis sativa
NPDI-d4aGfw	NPDI-2KocMg	Cannabis sativa
NPDI-d4aGfw	NPDI-8d0Lug	Cannabis sativa
NPDI-d4aGfw	NPDI-a3nUTg	Cannabis sativa
NPDI-d4aGfw	NPDI-AIeEmg	Cannabis sativa
NPDI-d4aGfw	NPDI-gAcr3g	Cannabis sativa
NPDI-d4aGfw	NPDI-LI0O-A	Cannabis sativa
NPDI-d4aGfw	NPDI-sciDeA	Cannabis sativa
NPDI-d4aGfw	NPDI-t5Bygg	Cannabis sativa
NPDI-DlD-bA	NPDI-hQQnWg	Cannabis sativa
NPDI-DlD-bA	NPDI--NblVQ	Cannabis sativa
NPDI-eJTztA	NPDI-1B-DfQ	Cannabis sativa
NPDI-eJTztA	NPDI-CtgCHg	Cannabis sativa
NPDI-eJTztA	NPDI-GqHdbQ	Cannabis sativa
NPDI-eJTztA	NPDI-IW6BRg	Cannabis sativa
NPDI-eJTztA	NPDI-RY8JgQ	Cannabis sativa
NPDI-eJTztA	NPDI-S43ljQ	Cannabis sativa
NPDI-eJTztA	NPDI-uPtFxA	Cannabis sativa
NPDI-eJTztA	NPDI-VNa1xQ	Cannabis sativa
NPDI-EngCtg	NPDI-4ZUTtw	Cannabis sativa
NPDI-EngCtg	NPDI-yqEgVA	Cannabis sativa
NPDI-euNEwQ	NPDI-3VIAiw	Cannabis sativa
NPDI-euNEwQ	NPDI-4htiMA	Cannabis sativa
NPDI-euNEwQ	NPDI-GRyerw	Cannabis sativa
NPDI-FhBdoQ	NPDI-LCPweA	Cannabis sativa
NPDI-FhBdoQ	NPDI-S4_OQA	Cannabis sativa
NPDI-gTt8Dw	NPDI-UlPhZQ	Cannabis sativa
NPDI-i4m0FA	NPDI-soqMrQ	Cannabis sativa
NPDI-ieYYdA	NPDI-0g58zw	Cannabis sativa
NPDI-ieYYdA	NPDI-8jlF2g	Cannabis sativa
NPDI-ieYYdA	NPDI-b-kubA	Cannabis sativa

NPDI-ieYYdA	NPDI-ckGWRw	Cannabis sativa
NPDI-ieYYdA	NPDI-F3DjaQ	Cannabis sativa
NPDI-ieYYdA	NPDI-Hsp-vg	Cannabis sativa
NPDI-ieYYdA	NPDI-iDzluw	Cannabis sativa
NPDI-ieYYdA	NPDI-KQoVKg	Cannabis sativa
NPDI-ieYYdA	NPDI-p2jqFw	Cannabis sativa
NPDI-ieYYdA	NPDI-THQe_g	Cannabis sativa
NPDI-ieYYdA	NPDI-XBXjow	Cannabis sativa
NPDI-ieYYdA	NPDI-y29wsw	Cannabis sativa
NPDI-iHWMgQ	NPDI-8vislA	Cannabis sativa
NPDI-iHWMgQ	NPDI-ens_Gw	Cannabis sativa
NPDI-iHWMgQ	NPDI-FmAizA	Cannabis sativa
NPDI-iHWMgQ	NPDI-PS8_LQ	Cannabis sativa
NPDI-iHWMgQ	NPDI-yszOMw	Cannabis sativa
NPDI-iHWMgQ	NPDI-zkYApA	Cannabis sativa
NPDI-l0yevQ	NPDI-Q2pa5g	Cannabis sativa
NPDI-l0yevQ	NPDI-zu7hCg	Cannabis sativa
NPDI-lY9NZQ	NPDI-4qS0VQ	Cannabis sativa
NPDI-lY9NZQ	NPDI-jW07Iw	Cannabis sativa
NPDI-lY9NZQ	NPDI-qHswZw	Cannabis sativa
NPDI-m-U3YQ	NPDI-3LZeDA	Cannabis sativa
NPDI-m-U3YQ	NPDI-dsHL7w	Cannabis sativa
NPDI-m-U3YQ	NPDI-ZFfQJg	Cannabis sativa
NPDI-muoDdQ	NPDI-uz4EAA	Cannabis sativa
NPDI-qOTUkQ	NPDI-J5A-Vg	Cannabis sativa
NPDI-qOTUkQ	NPDI-qhVkgQ	Cannabis sativa
NPDI-Rvn9SQ	NPDI-42-g8Q	Cannabis sativa
NPDI-Rvn9SQ	NPDI-5Fz7kg	Cannabis sativa
NPDI-Rvn9SQ	NPDI-8flCOQ	Cannabis sativa
NPDI-Rvn9SQ	NPDI-abEayg	Cannabis sativa
NPDI-Rvn9SQ	NPDI-EYnQkA	Cannabis sativa
NPDI-Rvn9SQ	NPDI-I4dv_g	Cannabis sativa
NPDI-Rvn9SQ	NPDI-IQtjvw	Cannabis sativa
NPDI-Rvn9SQ	NPDI-M13k5Q	Cannabis sativa
NPDI-Rvn9SQ	NPDI-M8-Oxw	Cannabis sativa
NPDI-Rvn9SQ	NPDI-qmmKqA	Cannabis sativa
NPDI-Rvn9SQ	NPDI-rbqhsA	Cannabis sativa
NPDI-Rvn9SQ	NPDI-RCBEtw	Cannabis sativa
NPDI-Rvn9SQ	NPDI-THVK4A	Cannabis sativa
NPDI-Rvn9SQ	NPDI-uxfWFg	Cannabis sativa
NPDI-Rvn9SQ	NPDI-v8ghug	Cannabis sativa
NPDI-Rvn9SQ	NPDI-VpD-Xg	Cannabis sativa
NPDI-Rvn9SQ	NPDI-YQ1c2Q	Cannabis sativa
NPDI-Rvn9SQ	NPDI-Yr3jng	Cannabis sativa
NPDI-SiYA_A	NPDI-_jX3DQ	Cannabis sativa
NPDI-SiYA_A	NPDI-2TMzVA	Cannabis sativa
NPDI-SiYA_A	NPDI-4EVwQw	Cannabis sativa

NPDI-SiYA_A	NPDI-8_xKYg	Cannabis sativa
NPDI-SiYA_A	NPDI-9oyo4g	Cannabis sativa
NPDI-SiYA_A	NPDI-a9Sh7Q	Cannabis sativa
NPDI-SiYA_A	NPDI-AEDMtg	Cannabis sativa
NPDI-SiYA_A	NPDI-AWv-_A	Cannabis sativa
NPDI-SiYA_A	NPDI-d2rDLg	Cannabis sativa
NPDI-SiYA_A	NPDI-kJ7mIQ	Cannabis sativa
NPDI-SiYA_A	NPDI-wM7_CQ	Cannabis sativa
NPDI-SiYA_A	NPDI-Y9U8Tw	Cannabis sativa
NPDI-SiYA_A	NPDI-z3MwKw	Cannabis sativa
NPDI-SiYA_A	NPDI-ZM5Pkw	Cannabis sativa
NPDI-sUzV-g	NPDI-akOrWg	Cannabis sativa
NPDI-sUzV-g	NPDI-CWIhCg	Cannabis sativa
NPDI-sUzV-g	NPDI-GNkg_Q	Cannabis sativa
NPDI-sUzV-g	NPDI-GT0H0Q	Cannabis sativa
NPDI-sUzV-g	NPDI-PxRYvA	Cannabis sativa
NPDI-sUzV-g	NPDI-qk8qvw	Cannabis sativa
NPDI-sUzV-g	NPDI-Qoqt5Q	Cannabis sativa
NPDI-sUzV-g	NPDI-ToTRjw	Cannabis sativa
NPDI-TvFZMw	NPDI-6sB67w	Cannabis sativa
NPDI-TvFZMw	NPDI-PO4R-w	Cannabis sativa
NPDI-UaGLOg	NPDI-pvvgAw	Cannabis sativa
NPDI-Ujn_7A	NPDI-9ju4Lw	Cannabis sativa
NPDI-Ujn_7A	NPDI-BfJ7dA	Cannabis sativa
NPDI-Ujn_7A	NPDI-E6xHTA	Cannabis sativa
NPDI-Ujn_7A	NPDI-iJRQWg	Cannabis sativa
NPDI-Ujn_7A	NPDI-ZmjyHw	Cannabis sativa
NPDI-uPn_2w	NPDI-6t3-aw	Cannabis sativa
NPDI-uPn_2w	NPDI-P9f-Mw	Cannabis sativa
NPDI-uPn_2w	NPDI-RUuAkA	Cannabis sativa
NPDI-UXOaUA	NPDI-37uQKw	Cannabis sativa
NPDI-UXOaUA	NPDI-csAo1g	Cannabis sativa
NPDI-UXOaUA	NPDI-hnUjdg	Cannabis sativa
NPDI-UXOaUA	NPDI-I4ebig	Cannabis sativa
NPDI-UXOaUA	NPDI-px3AyQ	Cannabis sativa
NPDI-UXOaUA	NPDI-wx2mcg	Cannabis sativa
NPDI-vhBMSw	NPDI-7hkXUg	Cannabis sativa
NPDI-vhBMSw	NPDI-dh6TjQ	Cannabis sativa
NPDI-vhBMSw	NPDI-DpYeow	Cannabis sativa
NPDI-vhBMSw	NPDI-ILsKWw	Cannabis sativa
NPDI-vhBMSw	NPDI-JvqWDQ	Cannabis sativa
NPDI-vhBMSw	NPDI-jwN2Vw	Cannabis sativa
NPDI-vniY7Q	NPDI-59dZ4A	Cannabis sativa
NPDI-vniY7Q	NPDI-bM6NOQ	Cannabis sativa
NPDI-vniY7Q	NPDI-dvyC1w	Cannabis sativa
NPDI-vniY7Q	NPDI-Fqa3JA	Cannabis sativa
NPDI-vniY7Q	NPDI-Jb4JFA	Cannabis sativa

NPDI-vniY7Q	NPDI-jZO6oQ	Cannabis sativa
NPDI-vniY7Q	NPDI-KqafWg	Cannabis sativa
NPDI-vniY7Q	NPDI-LKS7Ow	Cannabis sativa
NPDI-vniY7Q	NPDI-mGu2ew	Cannabis sativa
NPDI-vniY7Q	NPDI-P2rdYg	Cannabis sativa
NPDI-vniY7Q	NPDI-V1SemA	Cannabis sativa
NPDI-vniY7Q	NPDI-vUechg	Cannabis sativa
NPDI-vniY7Q	NPDI-wt2yDg	Cannabis sativa
NPDI-vniY7Q	NPDI-XouN0Q	Cannabis sativa
NPDI-vniY7Q	NPDI-ZNPhvw	Cannabis sativa
NPDI-VYyv-A	NPDI-4tAywg	Cannabis sativa
NPDI-VYyv-A	NPDI-bxWjqg	Cannabis sativa
NPDI-VYyv-A	NPDI-DQGnJw	Cannabis sativa
NPDI-VYyv-A	NPDI-F-0XWg	Cannabis sativa
NPDI-VYyv-A	NPDI-FompNA	Cannabis sativa
NPDI-VYyv-A	NPDI-jYDUsw	Cannabis sativa
NPDI-VYyv-A	NPDI-RC8Kxw	Cannabis sativa
NPDI-VYyv-A	NPDI-v65nxg	Cannabis sativa
NPDI-VYyv-A	NPDI-XKoD2A	Cannabis sativa
NPDI-xYeUJQ	NPDI-noOe3w	Cannabis sativa
NPDI-xYeUJQ	NPDI-SCT2WA	Cannabis sativa
NPDI-xYeUJQ	NPDI-tUG7XA	Cannabis sativa
NPDI-Z6vbAA	NPDI-b6F8pQ	Cannabis sativa
NPDI-Z6vbAA	NPDI-DqfMEw	Cannabis sativa
NPDI-Z6vbAA	NPDI-pQrX0g	Cannabis sativa
NPDI-Z6vbAA	NPDI-wnmeug	Cannabis sativa
NPDI-zlH6uA	NPDI-jJ11Ig	Cannabis sativa
NPDI-zlH6uA	NPDI-otngFw	Cannabis sativa
NPDI-zlH6uA	NPDI-RPqAvQ	Cannabis sativa
NPDI-zlH6uA	NPDI-tjxX2A	Cannabis sativa
NPDI-ZqVOgw	NPDI-Rsay5Q	Cannabis sativa

ıral Product-Drug Interactions: from Chemical Characterization to Clinical Studies",

April 2020

Experiment title
Kinetic constants for 11-hydroxy-delta-9-THC formation
Down regulation of P-gp transporter (protein) by Cannabidiol
Down regulation of P-gp transporter (protein) by Cannabidiol
Induction of BCRP transporter (protein) by Cannabidiol
Inhibition of P-gp by Cannabidiol 10ÂµM
Down regulation of P-gp transporter (protein) by Cannabidiol
Down regulation of P-gp (mRNA) by Cannabidiol
Inhibition of P-gp by Cannabidiol 10 ÂµM
Induction of BCRP transporter (protein) by Cannabidiol
Induction (mRNA) of BCRP transporter with Cannabidiol
Induction of P-gp transporter (protein) by Cannabidiol
Inhibition of P-gp by Cannabidiol 25 ÂµM
Induction of BCRP transporter (protein) by Cannabidiol
Inhibition of P-gp by Cannabidiol 25 ÂµM
Non-induction of BCRP transporter (protein) by Cannabiodiol
Induction of BCRP transporter (mRNA) by Cannabidiol
Characterization of Cannabis extract (THC)
Mean THC Plasma Concentration with High Ethanol
Mean THC Concentration with Placebo
Mean THC Plasma Concentration with High Ethanol
Inhibition of CYP2C19 by Cannabidiol
Inhibition of CYP2C19 by Cannabidiol
Inhibition of CYP2C19 by Cannabidiol
Inhibition of CYP2C19 enzyme with Cannabidiol
Inhibition of ABCC1 by Cannabinol
Negligible inhibition of ABCC1 by Cannabinol
Negligible inhibition of ABCC1 by THC
Inhibition of ABCC1 by Cannabidiol
Negligible inhibition of ABCC1 by Cannabidiol
Negligible inhibition of ABCC1 by THC
THC PK
CBD
THC
THC-OMF
2H-CBD-omeprazole
CBDV-omeprazole
CBDD-(S)-mephenytoin
CBDD-OMF
2H-CBD-OMF
2H-CBD-(S)-Mephenytoin
CBD-(S)-Mephenytoin

THC-omeprazole
CBD-OMF
THC-(S)-Mephenytoin
CBD-omeprazole
CBDV-(S)-Mephenytoin
CBDD-omeprazole
CBDM-OMF
CBDM-omeprazole
CBDM-(S)-Mephenytoin
CBDV-OMF
CCRF-CEM: THC
CCRF-CEM: CBN
CEM/VLB100: CBN
CCRF-CEM: CBD
CEM/VLB100: THC
CEM/VLB100: CBD
Evaluation of Time-Dependent CES1 Inhibition by CBN (30 min)
Evaluation of Time-Dependent CES1 Inhibition by CBN (0 min)
Evaluation of Time-Dependent CES1 Inhibition by THC (30 min)
Inhibition of CES1 by CBD
Inhibition of CES1 by THC
Evaluation of Time-Dependent CES1 Inhibition by CBD (0 min)
Inhibition of CES1 by CBN
Evaluation of Time-Dependent CES1 Inhibition by CBD (30 min)
Evaluation of Time-Dependent CES1 Inhibition by THC (0 min)
Inhibited Hexobarbital metabolism with Cannabidiol (IV intake)
Inhibited Hexobarbital metabolism with Cannabidiol (oral intake)
THC Effect on Diclofenac Concentrations CYP2C9
THC Effect on Omeprazole Concentrations on CYP3A4
CBD Effect on Omeprazole Concentrations CYP2C19
THC Effect on Omeprazole Concentrations on CYP2D6
THC Effect on Omeprazole Concentrations CYP2C19
CBD Effect on Diclofenac Concentrations CYP2C9
CBD Effect on Dextromethoprhan Concentrations CYP2D6
CBD Effect on Testosterone Concentrations CYP3A4
Irinotecan PK Â± medicinal cannabis
Docetaxel PK Â± medicinal cannabis
Jar: CBD-Mitoxantrone
BeWo: CBD-mitoxantrone
MCF7/P-gp: CBD-mitoxantrone
Calcein-AM-THC
Rh-123-THC
Plasma CBD Concentrations
Cannabis bulk plant Characterization of Material
Recombinant: CBN-dextromethorphan
Recombinant: CBD-AMMC
Recombinant: CBN-AMMC

pHLM: CBD-dextromethorphan
Recombinant: CBDD-AMMC
Recombinant: THC-dextramethorphan
Recombinant: CBDV-AMMC
HLMs: THC-dextromethorphan
pHLM: CBN-dextromethorphan
Recombinant: CBD-dextromethorphan
Recombinant: THC-AMMC
Recombinant: CBDM-AMMC
CYP3A4-THC
CYP3A4-CBN
CYP3A4-CBD
HLM-THC
HLM-CBN
HLM-CBD
CBD
THC
Induction of CYP1A1 mRNA expression by 50 ÂµM cannabidiol
Non-induction of CYP1A1 mRNA expression by 50 ÂµM cannabinol
Induction of CYP1A1 mRNA expression by 50 ÂµM delta-9-THC
Mitoxantrone-THC
Mitoxantrone-CBN
Mitoxantrone-CBD
Cannabis extract (Cannabidiol) Characterization of Material
NFV+THC PK at Baseline and Day 14
IDV+THC PK at Baseline and Day 14
Inhibition of 11-hydroxylation of delta-8-THC by sulfaphenazole
Weak Inhibition of 7-alpha-hydroxylation of delta-8-THC by sulfaphenazole
Inhibition of 11-hydroxylation of cannabinol by sulfaphenazole
Weak Inhibition of 11-hydroxylation of delta-9-THC by ketoconazole
No inhibition of 7-alpha-hydroxylation of delta-8-THC by 7,8-benzoflavone
Inhibition of 8-hydroxylation of cannabinol by ketoconazole
Weak Inhibition of 11-hydroxylation of delta-9-THC by 7,8-benzoflavone
Inhibition of 7-alpha-hydroxylation of delta-8-THC by ketoconazole
Weak Inhibition of 11-hydroxylation of delta-8-THC by ketoconazole
Inhibition of 11-hydroxylation of delta-9-THC by sulfaphenazole
Inhibition of 8-beta-hydroxylation of delta-9-THC by ketoconazole
Weak Inhibition of 11-hydroxylation of delta-8-THC by 7,8-benzoflavone
No inhibition of 8-beta-hydroxylation of delta-9-THC by 7,8-benzoflavone
Weak Inhibition of 8-hydroxylation of cannabinol by sulfaphenazole
No Inhibition of 8-hydroxylation of cannabinol by 7,8-benzoflavone
Weak Inhibition of 11-hydroxylation of cannabinol by ketoconazole
Weak Inhibition of 11-hydroxylation of cannabinol by 7,8-benzoflavone
Weak Inhibition of 8-beta-hydroxylation of delta-9-THC by sulfaphenazole
CBD Effect on N-desmethylclobazam Concentrations
Stiripentol Effect on CBD, 6-OH-CBD, and 7-COOH-CBD
Clobazam Effect on CBD

CBD Effect on Stiripentol Concentrations
Clobazam Effect on 7-OH-CBD
Stiripentol Effect on 7-OH-CBD
Valproic Acid Effect on Cannabidiol Metabolites
Valproic Acid Effect on CBD
CBD Effect on Midazolam
CBD effect on CLB and N-desmethylclobazam
CBD Effect on Valproic Acid Concentrations
CBD Effect on clobazam and N-desmethylclobazam
Clobazam Effect on 6-OH-CBD
Clobazam Effect on 7-COOH-CBD
CBN-UGT1A9
THC-OH-UGT1A10
THC-COOH-UGT1A3
THC-COOH-UGT1A1
CBN-UGT1A10
THC-OH-UGT1A9
CBN-UGT1A7
CBN-UGT1A8
Increased Clobazam with Cannabidiol (8 weeks)
Increased Clobazam with Cannabidiol (4 weeks)
CBD-Rh123 (Flow-Cytometry Assay)
Cannabidiol-2',6'-dimethyl ether
Cannabidiol
Cannabidiol-2'-monomethyl ether
THC
Cannabidvarin
Decreased systemic exposure of Theophylline with Smoked Tobacco (no Marihuana smoker)
Decreased systemic exposure of Theophylline with Smoked Marihuana (non Tobacco smoker)
Decreased systemic exposure of Theophylline with Smoked Marihuana (Tobacco smoker)
Plasma Concentration of 11-OH-THC when Fed
Plasma Concentration of 11-OH-THC when Fasting
Plasma Concentration of CBD when Fasting
Plasma Concentration of THC when Fasting
Plasma Concentration of THC when Fed
Plasma Concentration of CBD when Fed
CBN on ethanol glucuronidation
CBD-UGT1A9 Inhibition
CBD-UGT2B7 Inhibition
CBD on ethanol glucuronidation
CBN-UGT2B7 Induction
CBN-UGT1A9 Inhibition
rCYP2C9: THC-warfarin
rCYP2C9: THC-diclofenac
iHLMs: CBD-warfarin
iHLM: CBD-diclofenac
iHLM: THC-diclofenac

pHLM: THC-warfarin
rCYP2C9: CBN-diclofenac
rCYP2C9: CBD-diclofenac
pHLM: CBN-warfarin
rCYP2C9: CBD-warfarin
iHLM: CBN-diclofenac
iHLM: THC-warfarin
rCYP2C9: CBN-warfarin
pHLM: CBD-warfarin
iHLM: CBN-warfarin
1A1: THC
HLMs: CBD
HLMs: THC
1A2: THC
1A2: CBD
1A1: CBD
1A2: CBN
1A1: CBN
HLMs: CBN
Secobarbital Plasma Concentrations Following Sodium Secobarbital Ingestion and 150 Âµg/kg CBD Pretreatment
Secobarbital Plasma Concentrations Following Sodium Secobarbital Ingestion and 500 Âµg/kg CBD Pretreatment
Plasma Concentrations of Secobarbital After Placebo Pretreatment and Oral Administration of Secobarbital
Cannabidiol
Cannbidiol-2'-monomethyl ether
CBD-dimethyl ether
Cannabidivarin
6-alpha-OH-CBD-omeprazole
6-alpha-OH-CBD-ketoconazole
6-alpha-OH-CBD-quinidine
6-alpha-OH-CBD-sulfaphenazole
Effect of naltrexone on THC concentration

Experiment type name	Overall effect
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Transporter Induction	In Vitro Transporter Down Regulation
In Vitro Transporter Induction	In Vitro Transporter Down Regulation
In Vitro Transporter Induction	In Vitro Transporter Induction
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Induction	In Vitro Transporter Down Regulation
In Vitro Transporter Induction	In Vitro Transporter Down Regulation
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Induction	In Vitro Transporter Induction
In Vitro Transporter Induction	In Vitro Transporter Induction
In Vitro Transporter Induction	In Vitro Transporter Induction
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Induction	In Vitro Transporter Induction
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Induction	In Vitro Transporter Non-induction
In Vitro Transporter Induction	In Vitro Transporter Induction
Characterization of Material	
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vivo Pharmacokinetics	
In Vitro Transporter Kinetics	In Vitro Transport
In Vitro Transporter Kinetics	In Vitro Transport
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition

In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Non-inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vivo Interaction	No Effect (based on bioequivalence limits)
Characterization of Material	
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition

In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Transporter Induction	In Vitro Transporter Induction
In Vitro Transporter Induction	In Vitro Transporter Induction
In Vitro Enzyme Induction	In Vitro Enzyme Induction
In Vitro Enzyme Induction	In Vitro Enzyme Non-induction
In Vitro Enzyme Induction	In Vitro Enzyme Induction
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
Characterization of Material	
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)

In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	PK Interaction - Decreased systemic exposure
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	PK Interaction - Decreased systemic exposure
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vitro Enzyme Kinetics	In Vitro Detectable Kinetic Metabolism
In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vitro Transporter Inhibition	In Vitro Transporter Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vivo Interaction	PK Interaction - Decreased systemic exposure
In Vivo Interaction	PK Interaction - Increased systemic exposure
In Vivo Interaction	PK Interaction - Decreased systemic exposure
In Vivo Pharmacokinetics	
In Vivo Pharmacokinetics	
In Vivo Pharmacokinetics	
In Vivo Pharmacokinetics	
In Vivo Pharmacokinetics	
In Vivo Pharmacokinetics	
In Vitro Enzyme Induction	In Vitro Enzyme Induction
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Induction	In Vitro Enzyme Induction
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition

In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vivo Interaction	No Effect (based on bioequivalence limits)
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vitro Enzyme Inhibition	In Vitro Enzyme Negligible Inhibition
In Vivo Interaction	No Effect (based on bioequivalence limits)

Object compound name

delta-9-tetrahydrocannabinol

3,3â€²-diethyloxacarbocyanine iodide

calcein-am

rhodamine 123

calcein-am

delta-9-tetrahydrocannabinol
delta-9-tetrahydrocannabinol
delta-9-tetrahydrocannabinol
mephenytoin, (s)-
omeprazole
mephenytoin, (s)-
mephenytoin, (s)-
vincristine
fluo3
fluo3
vincristine
fluo3
vincristine

cannabidiol
delta-9-tetrahydrocannabinol
3-o-methylfluorescein
omeprazole
omeprazole
mephenytoin, (s)-
3-o-methylfluorescein
3-o-methylfluorescein
mephenytoin, (s)-
mephenytoin, (s)-

omeprazole
3-o-methylfluorescein
mephenytoin, (s)-
omeprazole
mephenytoin, (s)-
omeprazole
3-o-methylfluorescein
omeprazole
mephenytoin, (s)-
3-o-methylfluorescein
rhodamine 123
rhodamine 123
rhodamine 123
rhodamine 123
rhodamine 123
rhodamine 123
oseltamivir phosphate
oseltamivir phosphate
oseltamivir phosphate
oseltamivir phosphate
oseltamivir phosphate
oseltamivir phosphate
oseltamivir phosphate
oseltamivir phosphate
oseltamivir phosphate
hexobarbital
hexobarbital
diclofenac
testosterone
omeprazole
dextromethorphan
omeprazole
diclofenac
dextromethorphan
testosterone
irinotecan
docetaxel
mitoxantrone
mitoxantrone
mitoxantrone
calcein-am
rhodamine 123
fentanyl

dextromethorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-methoxy-4-methylcoumarin
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-methoxy-4-methylcoumarin

dextromethorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-methoxy-4-methylcoumarin
dextromethorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-methoxy-4-methylcoumarin
dextromethorphan
dextromethorphan
dextromethorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-methoxy-4-methylcoumarin
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-methoxy-4-methylcoumarin
diltiazem
diltiazem
diltiazem
diltiazem
diltiazem
diltiazem

mitoxantrone
mitoxantrone
mitoxantrone

nelfinavir
indinavir
delta-8-tetrahydrocannabinol
delta-8-tetrahydrocannabinol
cannabinol
delta-9-tetrahydrocannabinol
delta-8-tetrahydrocannabinol
cannabinol
delta-9-tetrahydrocannabinol
delta-8-tetrahydrocannabinol
delta-8-tetrahydrocannabinol
delta-9-tetrahydrocannabinol
delta-9-tetrahydrocannabinol
delta-8-tetrahydrocannabinol
delta-9-tetrahydrocannabinol
cannabinol
cannabinol
cannabinol
cannabinol
delta-9-tetrahydrocannabinol
n-desmethylclobazam
cannabidiol
cannabidiol

stiripentol
7-hydroxycannabidiol
7-hydroxycannabidiol
cannabidiol
cannabidiol
midazolam
clobazam
valproic acid
clobazam
6Î±-oh-cannabidiol
7-cooh-cbd
cannabinol
11-hydroxy-delta-9-tetrahydrocannabinol
11-nor-9-carboxy-delta9-tetrahydrocannabinol
11-nor-9-carboxy-delta9-tetrahydrocannabinol
cannabinol
11-hydroxy-delta-9-tetrahydrocannabinol
cannabinol
cannabinol
clobazam
clobazam
rhodamine 123
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
theophylline
theophylline
theophylline

ethanol
ethanol
ethanol

ethanol
(s)-warfarin
diclofenac
(s)-warfarin
diclofenac
diclofenac

(s)-warfarin
diclofenac
diclofenac
(s)-warfarin
(s)-warfarin
diclofenac
(s)-warfarin
(s)-warfarin
(s)-warfarin
(s)-warfarin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
secobarbital
secobarbital
secobarbital
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
7-ethoxyresorufin
cannabidiol
cannabidiol
cannabidiol
cannabidiol
delta-9-tetrahydrocannabinol

Object metabolite compound name

11-hydroxy-delta-9-tetrahydrocannabinol

4-hydroxymephenytoin, (s)-
5-hydroxyomeprazole
4-hydroxymephenytoin, (s)-
4-hydroxymephenytoin, (s)-

fluorescein
5-hydroxyomeprazole
5-hydroxyomeprazole
4-hydroxymephenytoin, (s)-
fluorescein
fluorescein
4-hydroxymephenytoin, (s)-
4-hydroxymephenytoin, (s)-

5-hydroxyomeprazole
fluorescein
4-hydroxymephenytoin, (s)-
5-hydroxyomeprazole
4-hydroxymephenytoin, (s)-
5-hydroxyomeprazole
fluorescein
5-hydroxyomeprazole
4-hydroxymephenytoin, (s)-
fluorescein

oseltamivir acid
oseltamivir acid
oseltamivir acid
oseltamivir acid
oseltamivir acid
oseltamivir acid
oseltamivir acid
oseltamivir acid
oseltamivir acid

4'-hydroxydiclofenac
6beta-hydroxytestosterone
5-hydroxyomeprazole
dextrorphan
5-hydroxyomeprazole
4'-hydroxydiclofenac
dextrorphan
6beta-hydroxytestosterone

dextrorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-hydroxy-4-methylcoumarin
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-hydroxy-4-methylcoumarin

dextrorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-hydroxy-4-methylcoumarin
dextrorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-hydroxy-4-methylcoumarin
dextrorphan
dextrorphan
dextrorphan
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-hydroxy-4-methylcoumarin
3-[2-(n,n-diethyl-n-methylammonium)ethyl]-7-hydroxy-4-methylcoumarin
n-demethyldiltiazem
n-demethyldiltiazem
n-demethyldiltiazem
n-demethyldiltiazem
n-demethyldiltiazem
n-demethyldiltiazem

11-hydroxy-delta-8-tetrahydrocannabinol
7-alpha-hydroxy-delta-8-tetrahydrocannabinol
11-hydroxycannabinol
11-hydroxy-delta-9-tetrahydrocannabinol
7-alpha-hydroxy-delta-8-tetrahydrocannabinol
8-hydroxycannabinol
11-hydroxy-delta-9-tetrahydrocannabinol
7-alpha-hydroxy-delta-8-tetrahydrocannabinol
11-hydroxy-delta-8-tetrahydrocannabinol
11-hydroxy-delta-9-tetrahydrocannabinol
8-beta-hydroxy-delta-9-tetrahydrocannabinol
11-hydroxy-delta-8-tetrahydrocannabinol
8-beta-hydroxy-delta-9-tetrahydrocannabinol
8-hydroxycannabinol
8-hydroxycannabinol
11-hydroxycannabinol
11-hydroxycannabinol
8-beta-hydroxy-delta-9-tetrahydrocannabinol

11-hydroxycannabinol
11-nor-9-carboxy-delta9-tetrahydrocannabinol
glucuronide
glucuronide
11-hydroxycannabinol
11-nor-9-carboxy-delta9-tetrahydrocannabinol
11-hydroxycannabinol
11-hydroxycannabinol

resorufin
resorufin
resorufin
resorufin
resorufin

ethyl glucuronide
ethyl glucuronide
ethyl glucuronide

ethyl glucuronide
7-hydroxywarfarin
4'-hydroxydiclofenac
7-hydroxywarfarin
4'-hydroxydiclofenac
4'-hydroxydiclofenac

7-hydroxywarfarin
4'-hydroxydiclofenac
4'-hydroxydiclofenac
7-hydroxywarfarin
7-hydroxywarfarin
4'-hydroxydiclofenac
7-hydroxywarfarin
7-hydroxywarfarin
7-hydroxywarfarin
7-hydroxywarfarin
resorufin
resorufin
resorufin
resorufin
resorufin
resorufin
resorufin
resorufin
resorufin

resorufin
resorufin
resorufin
resorufin
6Î±-oh-cannabidiol
6Î±-oh-cannabidiol
6Î±-oh-cannabidiol
6Î±-oh-cannabidiol

Precipitant compound name	Enzyme name	Transporter name	Control data
	CYP2C9		FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
			FALSE
ethanol			FALSE
placebo			FALSE
ethanol			FALSE
cannabidiol	CYP2C19		FALSE
cannabidiol	CYP2C19		FALSE
cannabidiol	CYP2C19		FALSE
cannabidiol	CYP2C19		FALSE
cannabinol		ABCC1	FALSE
cannabinol		ABCC1	FALSE
delta-9-tetrahydrocannabinol		ABCC1	FALSE
cannabidiol		ABCC1	FALSE
cannabidiol		ABCC1	FALSE
delta-9-tetrahydrocannabinol		ABCC1	FALSE
			FALSE
		P-gp (ABCB1)	FALSE
		P-gp (ABCB1)	FALSE
delta-9-tetrahydrocannabinol	CYP2C19		FALSE
8,9-dihydrocannabidiol	CYP2C19		FALSE
cannabidivarin	CYP2C19		FALSE
cannabidiol-dimethyl ether	CYP2C19		FALSE
cannabidiol-dimethyl ether	CYP2C19		FALSE
8,9-dihydrocannabidiol	CYP2C19		FALSE
8,9-dihydrocannabidiol	CYP2C19		FALSE
cannabidiol	CYP2C19		FALSE

delta-9-tetrahydrocannabinol	CYP2C19		FALSE
cannabidiol	CYP2C19		FALSE
delta-9-tetrahydrocannabinol	CYP2C19		FALSE
cannabidiol	CYP2C19		FALSE
cannabidivarin	CYP2C19		FALSE
cannabidiol-dimethyl ether	CYP2C19		FALSE
cannabidiol-2'-monomethyl ether	CYP2C19		FALSE
cannabidiol-2'-monomethyl ether	CYP2C19		FALSE
cannabidiol-2'-monomethyl ether	CYP2C19		FALSE
cannabidivarin	CYP2C19		FALSE
delta-9-tetrahydrocannabinol		P-gp (ABCB1)	FALSE
cannabinol		P-gp (ABCB1)	FALSE
cannabinol		P-gp (ABCB1)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
delta-9-tetrahydrocannabinol		P-gp (ABCB1)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabinol	CES1		FALSE
cannabinol	CES1		FALSE
delta-9-tetrahydrocannabinol	CES1		FALSE
cannabidiol	CES1		FALSE
delta-9-tetrahydrocannabinol	CES1		FALSE
cannabidiol	CES1		FALSE
cannabinol	CES1		FALSE
cannabidiol	CES1		FALSE
delta-9-tetrahydrocannabinol	CES1		FALSE
cannabidiol			FALSE
cannabidiol			FALSE
delta-9-tetrahydrocannabinol	CYP2C9		FALSE
delta-9-tetrahydrocannabinol	CYP3A4		FALSE
cannabidiol	CYP2C19		FALSE
delta-9-tetrahydrocannabinol	CYP2D6		FALSE
delta-9-tetrahydrocannabinol	CYP2C19		FALSE
cannabidiol	CYP2C9		FALSE
cannabidiol	CYP2D6		FALSE
cannabidiol	CYP3A4		FALSE
medicinal cannabis	CYP3A		FALSE
medicinal cannabis	CYP3A		FALSE
cannabidiol		BCRP (ABCG2)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
cannabidiol		P-gp (ABCB1)	FALSE
delta-9-tetrahydrocannabinol		P-gp (ABCB1)	FALSE
delta-9-tetrahydrocannabinol		P-gp (ABCB1)	FALSE
cannabidiol			FALSE
			FALSE
cannabinol	CYP2D6		FALSE
cannabidiol	CYP2D6		FALSE
cannabinol	CYP2D6		FALSE

cannabidiol	CYP2D6		FALSE
cannabidiol-dimethyl ether	CYP2D6		FALSE
delta-9-tetrahydrocannabinol	CYP2D6		FALSE
cannabidivarin	CYP2D6		FALSE
delta-9-tetrahydrocannabinol	CYP2D6		FALSE
cannabinol	CYP2D6		FALSE
cannabidiol	CYP2D6		FALSE
delta-9-tetrahydrocannabinol	CYP2D6		FALSE
cannabidiol-dimethyl ether	CYP2D6		FALSE
delta-9-tetrahydrocannabinol	CYP3A4		FALSE
cannabinol	CYP3A4		FALSE
cannabidiol	CYP3A4		FALSE
delta-9-tetrahydrocannabinol	CYP3A		FALSE
cannabinol	CYP3A		FALSE
cannabidiol	CYP3A		FALSE
cannabidiol		P-gp (ABCB1)	FALSE
delta-9-tetrahydrocannabinol		P-gp (ABCB1)	FALSE
cannabidiol	CYP1A1		FALSE
cannabinol	CYP1A1		FALSE
delta-9-tetrahydrocannabinol	CYP1A1		FALSE
delta-9-tetrahydrocannabinol		BCRP (ABCG2)	FALSE
cannabinol		BCRP (ABCG2)	FALSE
cannabidiol		BCRP (ABCG2)	FALSE
			FALSE
delta-9-tetrahydrocannabinol			FALSE
delta-9-tetrahydrocannabinol			FALSE
sulfaphenazole	CYP2C		FALSE
sulfaphenazole	CYP2C		FALSE
sulfaphenazole	CYP2C		FALSE
ketoconazole	CYP3A		FALSE
alpha-naphthoflavone	CYP1A		FALSE
ketoconazole	CYP3A		FALSE
alpha-naphthoflavone	CYP1A		FALSE
ketoconazole	CYP3A		FALSE
ketoconazole	CYP3A		FALSE
sulfaphenazole	CYP2C		FALSE
ketoconazole	CYP3A		FALSE
alpha-naphthoflavone	CYP1A		FALSE
alpha-naphthoflavone	CYP1A		FALSE
sulfaphenazole	CYP2C		FALSE
alpha-naphthoflavone	CYP1A		FALSE
ketoconazole	CYP3A		FALSE
alpha-naphthoflavone	CYP1A		FALSE
sulfaphenazole	CYP2C		FALSE
cannabidiol			FALSE
stiripentol			FALSE
clobazam			FALSE

cannabidiol			FALSE
clobazam			FALSE
stiripentol			FALSE
valproic acid			FALSE
valproic acid			FALSE
cannabidiol			FALSE
cannabidiol			FALSE
cannabidiol			FALSE
cannabidiol			FALSE
clobazam			FALSE
clobazam			FALSE
	UGT1A9		FALSE
	UGT1A10		FALSE
	UGT1A3		FALSE
	UGT1A1		FALSE
	UGT1A10		FALSE
	UGT1A9		FALSE
	UGT1A7		FALSE
	UGT1A8		FALSE
cannabidiol	CYP3A4		FALSE
cannabidiol			FALSE
cannabidiol		P-gp (ABCB1)	FALSE
cannabidiol-dimethyl ether	CYP1A1		FALSE
cannabidiol	CYP1A1		FALSE
cannabidiol-2'-monomethyl ether	CYP1A1		FALSE
delta-9-tetrahydrocannabinol	CYP1A1		FALSE
cannabidivarin	CYP1A1		FALSE
medicinal cannabis			FALSE
medicinal cannabis			FALSE
medicinal cannabis			FALSE
			FALSE
			FALSE
			FALSE
			FALSE
			FALSE
			FALSE
			FALSE
cannabinol	UGT		FALSE
cannabidiol	UGT1A9		FALSE
cannabidiol	UGT2B7		FALSE
cannabidiol	UGT		FALSE
cannabinol	UGT2B7		FALSE
cannabinol	UGT1A9		FALSE
delta-9-tetrahydrocannabinol	CYP2C9		FALSE
delta-9-tetrahydrocannabinol	CYP2C9		FALSE
cannabidiol	CYP2C9		FALSE
cannabidiol	CYP2C9		FALSE
delta-9-tetrahydrocannabinol	CYP2C9		FALSE

delta-9-tetrahydrocannabinol	CYP2C9	FALSE
cannabinol	CYP2C9	FALSE
cannabidiol	CYP2C9	FALSE
cannabinol	CYP2C9	FALSE
cannabidiol	CYP2C9	FALSE
cannabinol	CYP2C9	FALSE
delta-9-tetrahydrocannabinol	CYP2C9	FALSE
cannabinol	CYP2C9	FALSE
cannabidiol	CYP2C9	FALSE
cannabinol	CYP2C9	FALSE
delta-9-tetrahydrocannabinol	CYP1A1	FALSE
cannabidiol	CYP1A1	FALSE
delta-9-tetrahydrocannabinol	CYP1A1	FALSE
delta-9-tetrahydrocannabinol	CYP1A2	FALSE
cannabidiol	CYP1A2	FALSE
cannabidiol	CYP1A1	FALSE
cannabinol	CYP1A2	FALSE
cannabinol	CYP1A1	FALSE
cannabinol	CYP1A1	FALSE
delta-9-tetrahydrocannabinol		FALSE
delta-9-tetrahydrocannabinol		FALSE
placebo		FALSE
cannabidiol	CYP1A1	FALSE
cannabidiol-2'-monomethyl ether	CYP1A1	FALSE
cannabidiol-dimethyl ether	CYP1A1	FALSE
cannabidivarin	CYP1A1	FALSE
omeprazole	CYP2C19	FALSE
ketoconazole	CYP3A4	FALSE
quinidine	CYP2D6	FALSE
sulfaphenazole	CYP2C9	FALSE
naltrexone		FALSE

Test system name	IC50 shift data
Pooled human liver microsomes	FALSE
BeWo	FALSE
Jar	FALSE
BeWo	FALSE
BeWo	FALSE
BeWo	FALSE
Jar	FALSE
BeWo	FALSE
Jar	FALSE
BeWo	FALSE
MCF7/P-gp	FALSE
MCF7/P-gp	FALSE
Jar	FALSE
BeWo	FALSE
MCF7/P-gp	FALSE
Jar	FALSE
	FALSE
	FALSE
	FALSE
	FALSE
Pooled human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Pooled human liver microsomes	FALSE
Human ovarian carcinoma cell line	FALSE
Human ABCC1 transduced subline (MRP1)	FALSE
Human ABCC1 transduced subline (MRP1)	FALSE
Human ovarian carcinoma cell line	FALSE
Human ABCC1 transduced subline (MRP1)	FALSE
Human ovarian carcinoma cell line	FALSE
	FALSE
Caco-2 cells	FALSE
Caco-2 cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
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Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Other cells	FALSE
Other cells	FALSE
Other cells	FALSE
Other cells	FALSE
Other cells	FALSE
Other cells	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
Human kidney S9 fraction	FALSE
	FALSE
	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
	FALSE
	FALSE
Jar	FALSE
BeWo	FALSE
MCF7/P-gp	FALSE
HEK293 transfected cells	FALSE
HEK293 transfected cells	FALSE
	FALSE
	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Pooled human liver microsomes	FALSE

Pooled human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Individual human liver microsomes	FALSE
Individual human liver microsomes	FALSE
Individual human liver microsomes	FALSE
Other cells	FALSE
Other cells	FALSE
HepG2 cell line	FALSE
HepG2 cell line	FALSE
HepG2 cell line	FALSE
Other cells	FALSE
Other cells	FALSE
Other cells	FALSE
	FALSE
	FALSE
	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
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Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
	FALSE
	FALSE
LLC-PK1 transfected cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
	FALSE
	FALSE
	FALSE
	FALSE
	FALSE
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	FALSE
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	FALSE
Human cryopreserved hepatocytes	FALSE
Human cryopreserved hepatocytes	FALSE
Human cryopreserved hepatocytes	FALSE
Human cryopreserved hepatocytes	FALSE
Human cryopreserved hepatocytes	FALSE
Human cryopreserved hepatocytes	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Individual human liver microsomes	FALSE
Individual human liver microsomes	FALSE
Individual human liver microsomes	FALSE

Pooled human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Pooled human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Individual human liver microsomes	FALSE
Individual human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Pooled human liver microsomes	FALSE
Individual human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Pooled human liver microsomes	FALSE
Pooled human liver microsomes	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Pooled human liver microsomes	FALSE
	FALSE
	FALSE
	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
Baculovirus-insect cells	FALSE
	FALSE

Research organization's overall effect cutoff

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A
NA
Not provided. A common convention is that IC50 > 100 micM signals negligible inhibition
Not provided. A common convention is that IC50 > 100 micM signals negligible inhibition
NA
Not provided. A common convention is that IC50 > 100 micM signals negligible inhibition
Not provided. A common convention is that IC50 > 100 micM signals negligible inhibition

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90% inhibition
90% inhibition
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90% inhibition
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Not specified
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"The mean accumulation index had to be significantly > 1 ($p<0.05$) to assess transporter inhibition potency by flow
"The mean accumulation index had to be significantly > 1 ($p < 0.05$) to assess transporter inhibition potency by flov

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"The significance of differences between the means of the various groups was evaluated by means of a one-way ar
"The significance of differences between the means of the various groups was evaluated by means of a one-way ar
"The significance of differences between the means of the various groups was evaluated by means of a one-way ar
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Inhibition of Rh123 efflux caused by the treatment of 5 Î¼M PSC833 was defined as 100% inhibition
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Research organization's experiment ID

cyotmetry (n = 3 minimum)"
ɴ cytometry (n = 3 minimum)."

nalysis of variance followed by Bonferroni or
nalysis of variance followed by Bonferroni or
nalysis of variance followed by Bonferroni or

1102

GWEP1543

GWEP1543
GWEP1543
GWEP17028
GWEP1543
GWEP1543
GWEP1428

Additional information

Table 1

Figure 2
Figure 2Placebo is orange juice sprayed with 100-proof vodka
Figure 2

As per Table 3.Two-compartment linear model with zero-order absorption.Diphenhydramine was used a positive c

Acute T lymphoblastoid leukaemia cell line
Acute T lymphoblastoid leukaemia cell line (CCRF-CEM)
CEM/VLB100 cell line (multidrug resistant sub line)
Acute T lymphoblastoid leukaemia cell line
CEM/VLB100 cell line (multidrug resistant sub line)
CEM/VLB100 cell line (multidrug resistant sub line)

Table 2
Table 3

(Figure 2)

CEM/VLB100 cell line
CEM/VLB100 cell-line used
Dunnett's post-hoc test."
Dunnett's post-hoc test."
Dunnett's post-hoc test."

NFV = nelfinavirTHC = delta-9-THC
IDV = indiavirTHC = delta-9-THCBaseline = controlDay 14 = test

From page 109 of "Clinical Pharmacology Biopharmaceutics Review"
Study GWEP1543
Study GWEP1543

Study GWEP1543
Study GWEP1543
Study GWEP1543
Study GWEP1543
Study GWEP1543
Systemic exposure to midazolam was relatively unaffected by concomitant administration of CBD indicating lack of
Study GWEP1543
Study GWEP1543
Study GWEP1428 (p 106)
Study GWEP1543
Study GWEP1543
Table 2
Table 2
Table 2

Table 2

Table 2
Table 2

Table 1This studies the active metabolite of THC
Table 1This studies the active metabolite of THC
Table 1
Table 1
Table 1
(Table 1)

Figure 1
Figure 1
Table 1.

Cytochrome b5 purchased but no mention of how used in the study
(Table 2)

Experimental conditions comment

Blood samples drawn at described times after the beginning of ethanol administration

incubation time with two phases, cells and natural products for 30 min and then with Vincristine for another 90 mi
â€œincubation time with two phases, cells and natural products for 30 min and then with Fluo3 for another 60 mi
â€œincubation time with two phases, cells and natural products for 30 min and then with Fluo3 for another 60 mi
incubation time with two phases, cells and natural products for 30 min and then with Vincristine for another 90 mi
incubation time with two phases, cells and natural products for 30 min and then with Fluo3 for another 60 min.
incubation time with two phases, cells and natural products for 30 min and then with Vincristine for another 90 mi
ontrol.

CYP cocktail: Diclofenac (CYP2C9, 5 ÂµM), dextromethorphan (CYP2D6, 5 ÂµM), omeprazole (CYP2C19, 10 ÂµM) a

CYP cocktail: Diclofenac (CYP2C9, 5 ÂµM), dextromethorphan (CYP2D6, 5 ÂµM), omeprazole (CYP2C19, 10 ÂµM) a
CYP cocktail: Diclofenac (CYP2C9, 5 ÂµM), dextromethorphan (CYP2D6, 5 ÂµM), omeprazole (CYP2C19, 10 ÂµM) a
CYP cocktail: Diclofenac (CYP2C9, 5 ÂµM), dextromethorphan (CYP2D6, 5 ÂµM), omeprazole (CYP2C19, 10 ÂµM) a

Biphasic with at least one week interim.(Figure 1)
Moisture content: 10.5 Â± 0.16% (n = 3) by gravimetric measurement.

Heavy metals analysis have been done by ICP-MS, loss on drying analysis have been done by IR radiation.

Inclusion criteria: at least 18 years old, have documented HIV infection, and be on a stable antire- troviral treatme

f inhibition or induction of CYP3A4. The increased exposure to 1'-hydroxymidazolam may be due to downstream in

Patients began taking CBD at a dose of 5 mg/kg/day and titrated up by 5 mg/kg/day each week to a goal of 25 mg/

(Table 1, Study 2b)

Experimental results comment

Table 1. Vmax converted from pmol/min/mg to nmol/min/mg [463 (15) pmol/min mg protein]
figure 2
figure 3
FIGURE 2
the accumulation measurement is intracellular accumulation as measured by fluorescence

figure 5
the accumulation measurement is intracellular accumulation as measured by fluorescence
FIGURE 3
figure 5
figure 4
the accumulation measurement is intracellular accumulation as measured by fluorescence
figure 3
the accumulation measurement is intracellular accumulation as measured by fluorescence
figure 4
figure 5
Heavy metals (Pb, Hg, Cd and As) were not detected, as well as Aflatoxins B1, B2, G1 and G2.
Values converted from minutes.Â Original values: Time to peak (min): 5.7 Â± 0.7 AUC0-315Â (ng*min/mL): 3792Â Â
Values converted from minutes.Original values: Time to peak (min): 7.2Â Â± 0.7 AUC0-315 (ng*min/mL): 3695Â Â±
Values converted from minutes.Â Original values: Time to peak (min): 5.8 Â± 1 AUC0-315 (ng*min/mL): 4019Â Â± 5

Measurements show 50% reduction in transport using increase in intracellular accumulation based on % of parent
â€œMeasurements show 50% reduction in transport using increase in intracellular accumulation based on % of pa
â€œMeasurements show 50% reduction in transport using increase in intracellular accumulation based on % of pa
Measurements show 50% reduction in transport using increase in intracellular accumulation based on % of parent
â€œMeasurements show 50% reduction in transport using increase in intracellular accumulation based on % of pa
Measurements show 50% reduction in transport using increase in intracellular accumulation based on % of parent
Table 3. Estimated values
Fig 2. Estimated at 240 min.
Figure 2. Estimated at 240 min.
Table 2
Table 2
Table 2
%inhibition at 50Â Î¼M (Fig 2C).IC50 (Table 2).Ki (Table 3).
Table 2
Table 2
%inhibition at 6Â Î¼M (Fig 2F)IC50 (Table 2)Ki (Table 3)
%inhibition at 10Â Î¼M of CBD (Fig. 1)IC50 (Table 1), Ki (Table 3)

Table 2
Table 2
% inhibition at 10 Î¼M estimated from Fig 2D.IC50 (Table 2).Ki (Table 3)
Table 2
%inhibition at 10Â Î¼M (Fig 2E)IC50 (Table 2)Ki (Table 3)
Table 2
Table 2
Table 2
%inhibition at 10Â Î¼M (Fig.2C)IC50 (Table 2)Ki (Table 3)
Table 2
Table 1.
Table 1
Table 1.Accumulation estimated from Fig 1a at 10Â Î¼M
Table 1.
Table 1.Accumulation estimated from Fig 1c at 10Â Î¼M
Table 1.%inhibition estimated from Fig 1b at 10Â Î¼M
IC50 pre-incubation 0 min (A) = 4.03 ÂµMIC50 pre-incubation 30 min (B) = 8.51 ÂµMB/A = 2.11
IC50 pre-incubation 0 min (A) = 4.03 ÂµMIC50 pre-incubation 30 min (B) = 8.51 ÂµMB/A = 2.11
IC50 pre-incubation 0 min (A) = 3.91 ÂµMIC50 pre-incubation 30 min (A) = 11.2 ÂµMB/A = 2.85
Table 2
Table 2
IC50 pre-incubation 0 min (A) = 7.73 ÂµMIC50 pre-incubation 30 min (B) = 12.1 ÂµMB/A = 1.57
Table 2
IC50 pre-incubation 0 min (A) = 7.73 ÂµMIC50 pre-incubation 30 min (B) = 12.1 ÂµMB/A = 1.57
IC50 pre-incubation 0 min (A) = 3.91 ÂµMIC50 pre-incubation 30 min (B) = 11.2 ÂµMB/A = 2.85

measurement after CBD
MeanÂ±SD of IC50 values with duplicate determinations determined using Log avg [THC]
MeanÂ±SD of IC50 values with duplicate determinations determined using Log avg [THC]
IC50Â log average reported Nominal: 2.8 Â± 1.4 Published: 1.55 Î¼M2
MeanÂ±SD of IC50 values with duplicate determinations determined using Log avg [THC]
MeanÂ±SD of IC50 values with duplicate determinations determined using Log avg [THC]
IC50Â log average reported Nominal: 2.8 Â± 0.7 Published: 5.47 Î¼M2
IC50Â log average reported Nominal: 6.4 Â± 3.6 Published: 4.01 Î¼M2
IC50Â log average reported Nominal: 3.9 Â± 1.5 Published: 9.18 Î¼M2
Table 2.
Table 3.
Fig 1b at 25Â Î¼M CBD10Â Î¼M CBD ~125% Â± 10% inhibitionTable 1
Figure 1a at 25Â Î¼M CBD10Â Î¼M CBD ~130% Â± 15% inhibition
Fig 1c atÂ 20Â Î¼M CBD 10Â Î¼M CBD ~140% Â± 20% inhibitionTable 1
Fig 2a.PSC833 5Â Î¼M was used as a positive control
Fig 2bPSC833 5Â Î¼M was used as a positive control
Value reported estimated at 3 hours with 800 mg CBD (original value reported = ~170 Âµg/L)With 400 mg CBD, Cm
Cannabinoid Content Using Non-derivatized Extracts
Table 1
Table 1Figure 3
Table 1

Table 1Figure 3
Figure 4E
Table 1
Figure 5Figure 4E Ki atÂ log(-4.4) (concentration estimated)
Table 1
Table 1
Table 1Figure 3
Table 1 (AMMC)Table 3 (20 min)
Figure 4C
Table 2
Table 2
Table 2, Table 3
Table 2
Table 2
Table 2, Table 3
Estimated from Fig 1b and 1d. at 4 hr
Emax: Fig 1a. Reported at 4 h.Change from vehicle control: Estimated from Fig 1c. Reported at 4 h.
Figure 2
Estimated from Figure 2
Figure 2
Table 1 (MEF3.8/Bcrp1 A2)
Table 1 (MEF3.8/Bcrp1 A2)
Table 1 (MEF3.8/Bcrp 1 A2)

Table 3. Cmax % change reported -17.4 (-43-64). AUC0-8 % change reported -10.2 (-46-92).
Table 2. Cmax % Change reported as -14.1 (-58 to 7), p = 0.039; AUC0-8 % change reported as -14 (-66 to 44)Despit
Table 1
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Table 1
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Table 1
Table 1
From page 109Units for these values are NOT means but are instead a ratio of day 33 values:day 1 values

When CBD was combined with stiripentol there was a minor increase in Cmax and AUCtau; 1.28 and 1.55-fold, resp

C estimated from Fig 8; page 111
Clobazam exposure was increased slightly (~20%) by co-administration with CBD while exposure to the n-desmeth

Test ratios indicate the Day33:Day 1 ratio for individuals allocated to active drug.Control ratios indicate the Day 33

Table 2
Table 2
Table 2
Table 2
Table 2
Table 2
Table 2.
Table 2
kg/day. Throughout the study, CLB doses were either kept constant or decreased when side effects were observed.

Accumulation estimated from Fig 3a at 30Â Î¼M of CBD. p < 0.01 versus control%inhibition estimated from Fig 5 at
%inhibition estimated from Fig 3 at 25 Î¼M.Table 1.
Estimated from Fig 4a. CBD 1 Î¼M.Table 1
%inhibition estimated from Fig 3Table 1
Fig 5Table 1
%inhibition estimated from Fig 4a.Table 1

Table 1
Table 1
Table 1
Values from Table 1.The following values are from the fed state (Figure 1a and Table 1):Cmax: 6.2Â Â± 1.3 ng/mLA
Table 1
Results from Table 1
Estimated from Fig 4 at 15 mg/L.

%inhibition estimated from Fig 4 at 15 mg/L.Ki (3.1 mg/L) from Fig 5.IC50 (1.17 mg/L) and Ki converted from mg/L t

Tables 2, 3, and 4IC50 preincubation time recorded at 20 min
Tables 2 and 3
Tables 2 and 3
Tables 2 and 3
Tables 2 and 3

Tables 2, 3, and 4.IC50 pre-incubation recorded at 20 min
Tables 2 and 3
Tables 2 and 3
Tables 2, 3, and 4.IC50 pre-incubation recorded at 20 min
Tables 2, 3, and 4IC50 preincubation time recorded at 20 min
Tables 2 and 3
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Tables 2, 3, and 4IC50 preincubation time recorded at 20 min
Tables 2, 3, and 4.IC50 pre-incubation recorded at 20 min
Tables 2 and 3
Tables 2, 3, and 4IC50 at 20 min
Tables 2 and 3.IC50 at 20 min
Tables 2 and 3.IC50 at 20 min
Tables 2 and 3IC50 at 20 minFig 4. %inhibition estimated for 8Â Î¼M
Tables 2, 3, and 4IC50 at 20 min
Tables 2, 3, and 4.Â IC50 at 20 min.Fig 4. % inhibition estimated with 0.625Â Î¼MFig 5. With NADPH at 9 min
Tables 2 and 3IC50 at 20 min
Tables 2, 3, and 4IC50 at 20 min
Tables 2 and 3.IC50 at 20 min
Values estimated from Figure 1 and converted fromÂ Âµg/mL. Original estimated value: 2.5Â Âµg/mL.
Values estimated from Figure 1. Original value was converted to ng/mL: Cmax (Âµg/mL): 2.75
Values converted fromÂ Âµg/mL.Â Original value: Cmax (Âµg/mL): 2.59 Â± 0.94Table 1.
% inhibition estimated from Figure 2 at 20 min. IC50 at 0 min - 0.671IC50 at 20 min (table 1)Kinact/KI converted frc
%inhibition estimated from Figure 2.IC50pre-incubation at 0 min (Table 1).IC50pre-incubation at 20 min - 1.90Kina
%inhibitionpre-incubation at estimated 50Â Î¼M at 20 min (Figure 2).IC50pre-incubation at 0 min (Table 1)IC50pre
%inhibition estimated from Fig 2 at 20 min, ~0.5Â Î¼M CBDV.IC50 at 0 min (table 1).IC50 at 20 min 0.0677Kinact/K
Table 4 (100-(residual activity (% of control))
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Table 4 (100-residual activity (% of control))
Table 2. Cmax of control at t = 240 min; Cmax of test at t = 120 min. P value significance extrapolated from stateme

Internal: Additional comments

Â± 530 Figure 2.
: 597 Figure 2.
585 Figure 2

concentration.
rent concentrationâ€
rent concentrationâ€
concentration.
Cell line = human ABCC1 transduced subline (2008/MRP1)
concentration.

ıax mean Â± SEM ~ 140 Âµg/LÂ Â± 20 Âµg/LValues above converte

:e a statistically significant decrease in Cmax of IDV in the marijuan

pectively.

ylclobazam metabolite was increased by 3.4 fold as a result of con

:Day ratio for individuals allocated to placebo.CBD did not alter Cn

. CLB doses were recorded and plasma levels of CLB, nCLB, and CBI

: 100 Î¼M.IC50 found within text

UC(0-inf): 34.99 (16.41) h*ng/mLAUC(0-t): 32.7 (16.75) h*ng/mLCl

toÂ Âµg/mL

ɔm /min/mmol to /min/Î¼M (table 2).All other values from Table 2
ct/KI converted from /min/mmol to /min/Î¼M (table 2).All other v
-incubation at 20 min - 7.68Kinact/KI converted from /min/mmol t
I converted from /min/mmol to /min/Î¼M (table 2).All other value

ɛnt within the text: "Table 2, which portrays plasma levels of D9-TH

Study title
CYP2C-catalyzed delta9-tetrahydrocannabinol metabolism: kinetics, pharmacogenetics and interaction with pheny
Cannabidiol changes P-gp and BCRP expression in trophoblast cell lines.
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Cannabidiol changes P-gp and BCRP expression in trophoblast cell lines.
Cannabis extract (THC) Characterization of Material
Interaction between Marihuana and Ethanol: Effects on Psychomotor Performance
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Interaction between Marihuana and Ethanol: Effects on Psychomotor Performance
Cannabidiol is a potent inhibitor of the catalytic activity of cytochrome P450 2C19.
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Cannabidiol is a potent inhibitor of the catalytic activity of cytochrome P450 2C19.
Interaction of plant cannabinoids with the multidrug transporter ABCC1 (MRP1)
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Does olanzapine inhibit the psychomimetic effects of Î”9-tetrahydrocannabinol?
Pharmacological Effects of Cannabinoids on the Caco-2 Cell Culture Model of Intestinal Permeability
Pharmacological Effects of Cannabinoids on the Caco-2 Cell Culture Model of Intestinal Permeability
Cannabidiol Is a Potent Inhibitor of the Catalytic Activity of Cytochrome P450 2C19
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Cannabidiol Is a Potent Inhibitor of the Catalytic Activity of Cytochrome P450 2C19
The effects of cannabinoids on P-glycoprotein transport and expression in multidrug resistant cells.
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In Vitro Inhibition of Carboxylesterase 1 by Major Cannabinoids and Selected Metabolites
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Metabolic and psychophysiologic studies of cannabidiolhexobarbital interaction
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Cannabinoids as perpetrators of drug interactions - Using in vitro data to inform clinical study design
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Medicinal Cannabis Does Not Influence the Clinical Pharmacokinetics of Irinotecan and Docetaxel
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Cannabidiol enhances xenobiotic permeability through the human placental barrier by direct inhibition of breast c
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Interaction of drugs of abuse and maintenance treatments with human P-glycoprotein (ABCB1) and breast cancer
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Safety and pharmacokinetics of oral cannabidiol when administered concomitantly with intravenous fentanyl in h
Cannabis Characterization of Bulk Plant Material
Cannabidiol, a major phytocannabinoid, as a potent atypical inhibitor for CYP2D6.
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Potent inhibition of human cytochrome P450 3A isoforms by cannabidiol: role of phenolic hydroxyl groups in the r
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CB2 and TRPV1 receptors mediate cannabinoid actions on MDR1 expression in multidrug resistant cells
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Cannabidiol induces expression of human cytochrome P450 1A1 that is possibly mediated through aryl hydrocarbo
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The multidrug transporter ABCG2 (BCRP) is inhibited by plant-derived cannabinoids.
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Cannabis extract (CBD) Characterization of Material
The effects of cannabinoids on the pharmacokinetics of indinavir and nelfinavir
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Cytochrome P450 enzymes involved in the metabolism of tetrahydrocannabinols and cannabinol by human hepati
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Drug Approval Package: Epidiolex (Cannabidiol)
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Characterization of Human Hepatic and Extrahepatic UDP-Glucuronosyltransferase Enzymes Involved in the Metab
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Drug-drug interaction between clobazam and cannabidiol in children with refractory epilepsy
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Characterization of P-glycoprotein Inhibition by Major Cannabinoids from Marijuana
Structural requirements for potent direct inhibition of human cytochrome P450 1A1 by cannabidiol: role of pentyl
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Enhanced biotransformation of theophylline in marihuana and tobacco smokers.
Enhanced biotransformation of theophylline in marihuana and tobacco smokers.
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A phase I study to assess the effect of food on the single dose bioavailability of the THC/CBD oromucosal spray
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Involvement of UDP-Glucuronosyltransferases UGT1A9 and UGT2B7 in Ethanol Glucuronidation, and Interactions
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Comparison in the in vitro inhibitory effects of major phytocannabinoids and polycyclic aromatic hydrocarbons co
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Characterization of major phytocannabinoids, cannabidiol and cannabinol, as isoform-selective and potent inhibitc
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Influence of cannabidiol on secobarbital effects and plasma kinetics
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Characterization of the structural determinants required for potent mechanism-based inhibition of human cytochr
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Identification of cytochrome P450 enzymes responsible for metabolism of cannabidiol by human liver microsomes
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Interaction between naltrexone and oral THC in heavy marijuana smokers

Study URL	NaPDI study ID	Study pubmed ID	Study source type
http://repo.napdi.org/NPDI-0mD33A	PMID: 16112652	16112652	1
http://repo.napdi.org/NPDI-1wiJBw		24058883	1
http://repo.napdi.org/NPDI-1wiJBw		24058883	1
http://repo.napdi.org/NPDI-1wiJBw		24058883	1
http://repo.napdi.org/NPDI-1wiJBw		24058883	1
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http://repo.napdi.org/NPDI-1wiJBw		24058883	1
http://repo.napdi.org/NPDI-2P3dUg	cb_11		3
http://repo.napdi.org/NPDI-8lgFiA	PMID: 2837105	2837105	1
http://repo.napdi.org/NPDI-8lgFiA	PMID: 2837105	2837105	1
http://repo.napdi.org/NPDI-8lgFiA	PMID: 2837105	2837105	1
http://repo.napdi.org/NPDI-9V_SXw		23318708	1
http://repo.napdi.org/NPDI-9V_SXw		23318708	1
http://repo.napdi.org/NPDI-9V_SXw		23318708	1
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http://repo.napdi.org/NPDI-ahQtSQ		18619955	1
http://repo.napdi.org/NPDI-ahQtSQ		18619955	1
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http://repo.napdi.org/NPDI-ahQtSQ		18619955	1
http://repo.napdi.org/NPDI-Asg_wA	PMID: 22596206	22596206	1
http://repo.napdi.org/NPDI-BvR0Pw	PMID: 20592049	20592049	1
http://repo.napdi.org/NPDI-BvR0Pw	PMID: 20592049	20592049	1
http://repo.napdi.org/NPDI-CAApFQ		23318708	1
http://repo.napdi.org/NPDI-CAApFQ		23318708	1
http://repo.napdi.org/NPDI-CAApFQ		23318708	1
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http://repo.napdi.org/NPDI-cM9pfg	PMID: 16458258	16458258	1
http://repo.napdi.org/NPDI-cM9pfg	PMID: 16458258	16458258	1
http://repo.napdi.org/NPDI-cM9pfg	PMID: 16458258	16458258	1
http://repo.napdi.org/NPDI-cM9pfg	PMID: 16458258	16458258	1
http://repo.napdi.org/NPDI-cM9pfg	PMID: 16458258	16458258	1
http://repo.napdi.org/NPDI-cM9pfg	PMID: 16458258	16458258	1
http://repo.napdi.org/NPDI-d4aGfw		30833288	1
http://repo.napdi.org/NPDI-d4aGfw		30833288	1
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http://repo.napdi.org/NPDI-DlD-bA		7389248	1
http://repo.napdi.org/NPDI-DlD-bA		7389248	1
http://repo.napdi.org/NPDI-eJTztA	DMC-UW-002		3
http://repo.napdi.org/NPDI-eJTztA	DMC-UW-002		3
http://repo.napdi.org/NPDI-eJTztA	DMC-UW-002		3
http://repo.napdi.org/NPDI-eJTztA	DMC-UW-002		3
http://repo.napdi.org/NPDI-eJTztA	DMC-UW-002		3
http://repo.napdi.org/NPDI-eJTztA	DMC-UW-002		3
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Study source name	Natural product ID	Natural product name
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Quantified metabolite name	Quantified metabolite InChI
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cannabidiol	QHMBSVQNZZTUGM-ZWKOTPCHSA-N

cannabidiol	QHMBSVQNZZTUGM-ZWKOTPCHSA-N

Object metabolite compound ID	Object metabolite compound InChI
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146	GNBHRKFJIUUOQI-UHFFFAOYSA-N
148	CMZHQFXXAAIBKE-UHFFFAOYSA-N
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148 CMZHQFXXAAIBKE-UHFFFAOYSA-N
  3 OQPLORUDZLXXPD-UHFFFAOYSA-N
148 CMZHQFXXAAIBKE-UHFFFAOYSA-N
146 GNBHRKFJIUUOQI-UHFFFAOYSA-N
148 CMZHQFXXAAIBKE-UHFFFAOYSA-N
  3 OQPLORUDZLXXPD-UHFFFAOYSA-N
146 GNBHRKFJIUUOQI-UHFFFAOYSA-N

278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N
278 NENPYTRHICXVCS-YNEHKIRRSA-N

  2 KGVXVPRLBMWZLG-UHFFFAOYSA-N
165 XSEGWEUVSZRCBC-ZVBLRVHNSA-N
148 CMZHQFXXAAIBKE-UHFFFAOYSA-N
 13 JAQUASYNZVUNQP-PVAVHDDUSA-N
148 CMZHQFXXAAIBKE-UHFFFAOYSA-N
  2 KGVXVPRLBMWZLG-UHFFFAOYSA-N
 13 JAQUASYNZVUNQP-PVAVHDDUSA-N
165 XSEGWEUVSZRCBC-ZVBLRVHNSA-N

 13 JAQUASYNZVUNQP-PVAVHDDUSA-N
111
111

13 JAQUASYNZVUNQP-PVAVHDDUSA-N
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13 JAQUASYNZVUNQP-PVAVHDDUSA-N
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13 JAQUASYNZVUNQP-PVAVHDDUSA-N
13 JAQUASYNZVUNQP-PVAVHDDUSA-N
13 JAQUASYNZVUNQP-PVAVHDDUSA-N
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171 YOMLDISQSWWYOT-UXHICEINSA-N
171 YOMLDISQSWWYOT-UXHICEINSA-N
171 YOMLDISQSWWYOT-UXHICEINSA-N
171 YOMLDISQSWWYOT-UXHICEINSA-N
171 YOMLDISQSWWYOT-UXHICEINSA-N
171 YOMLDISQSWWYOT-UXHICEINSA-N

274
275
154 YDKZOUNVEIGJPO-UHFFFAOYSA-N
119 YCBKSSAWEUDACY-IAGOWNOFSA-N
275
277
119 YCBKSSAWEUDACY-IAGOWNOFSA-N
275
274
119 YCBKSSAWEUDACY-IAGOWNOFSA-N
276
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276
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277
154 YDKZOUNVEIGJPO-UHFFFAOYSA-N
154 YDKZOUNVEIGJPO-UHFFFAOYSA-N
276

154 YDKZOUNVEIGJPO-UHFFFAOYSA-N
124 YOVRGSHRZRJTLZ-HZPDHXFCSA-N
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155
154 YDKZOUNVEIGJPO-UHFFFAOYSA-N
124 YOVRGSHRZRJTLZ-HZPDHXFCSA-N
154 YDKZOUNVEIGJPO-UHFFFAOYSA-N
154 YDKZOUNVEIGJPO-UHFFFAOYSA-N

87
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166 IWJBVMJWSPZNJH-UQGZVRACSA-N
166 IWJBVMJWSPZNJH-UQGZVRACSA-N
166 IWJBVMJWSPZNJH-UQGZVRACSA-N

166 IWJBVMJWSPZNJH-UQGZVRACSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
2 KGVXVPRLBMWZLG-UHFFFAOYSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
2 KGVXVPRLBMWZLG-UHFFFAOYSA-N
2 KGVXVPRLBMWZLG-UHFFFAOYSA-N

167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
2 KGVXVPRLBMWZLG-UHFFFAOYSA-N
2 KGVXVPRLBMWZLG-UHFFFAOYSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
2 KGVXVPRLBMWZLG-UHFFFAOYSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
167 SKFYEJMLNMTTJA-UHFFFAOYSA-N
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157 YYLPAYRRVSQJRR-KSZLIROESA-N
157 YYLPAYRRVSQJRR-KSZLIROESA-N
157 YYLPAYRRVSQJRR-KSZLIROESA-N
157 YYLPAYRRVSQJRR-KSZLIROESA-N

Object metabolite compound description	Object metabolite compound concept ID (omop)
11-OH-THC	

4349487

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11-OH-THC

11-OH-THC

11-OH-THC

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Precipitant compound ID	**Precipitant compound international chemical identifier**
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
125	LFQSCWFLJHTTHZ-UHFFFAOYSA-N
117	
125	LFQSCWFLJHTTHZ-UHFFFAOYSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
153	VBGLYOIFKLUMQG-UHFFFAOYSA-N
153	VBGLYOIFKLUMQG-UHFFFAOYSA-N
118	CYQFCXCEBYINGO-UHFFFAOYSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
118	CYQFCXCEBYINGO-UHFFFAOYSA-N
118	CYQFCXCEBYINGO-UHFFFAOYSA-N
149	
142	REOZWEGFPHTFEI-JKSUJKDBSA-N
140	UYBGHBAVRNATET-VQTJNVASSA-N
140	UYBGHBAVRNATET-VQTJNVASSA-N
149	
149	
115	QHMBSVQNZZTUGM-ZWKOTPCHSA-N

118 CYQFCXCEBYINGO-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
142 REOZWEGFPHTFEI-JKSUJKDBSA-N
140 UYBGHBAVRNATET-VQTJNVASSA-N
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142 REOZWEGFPHTFEI-JKSUJKDBSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
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118 CYQFCXCEBYINGO-UHFFFAOYSA-N
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115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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118 CYQFCXCEBYINGO-UHFFFAOYSA-N
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118 CYQFCXCEBYINGO-UHFFFAOYSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
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115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N

153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N

115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
140 UYBGHBAVRNATET-VQTJNVASSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
142 REOZWEGFPHTFEI-JKSUJKDBSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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140 UYBGHBAVRNATET-VQTJNVASSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
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118 CYQFCXCEBYINGO-UHFFFAOYSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N

118 CYQFCXCEBYINGO-UHFFFAOYSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
156 QWCJHSGMANYXCW-UHFFFAOYSA-N
156 QWCJHSGMANYXCW-UHFFFAOYSA-N
156 QWCJHSGMANYXCW-UHFFFAOYSA-N
102 XMAYWYJOQHXEEK-OZXSUGGESA-N
257 VFMMPHCGEFXGIP-UHFFFAOYSA-N
102 XMAYWYJOQHXEEK-OZXSUGGESA-N
257 VFMMPHCGEFXGIP-UHFFFAOYSA-N
102 XMAYWYJOQHXEEK-OZXSUGGESA-N
102 XMAYWYJOQHXEEK-OZXSUGGESA-N
156 QWCJHSGMANYXCW-UHFFFAOYSA-N
102 XMAYWYJOQHXEEK-OZXSUGGESA-N
257 VFMMPHCGEFXGIP-UHFFFAOYSA-N
257 VFMMPHCGEFXGIP-UHFFFAOYSA-N
156 QWCJHSGMANYXCW-UHFFFAOYSA-N
257 VFMMPHCGEFXGIP-UHFFFAOYSA-N
102 XMAYWYJOQHXEEK-OZXSUGGESA-N
257 VFMMPHCGEFXGIP-UHFFFAOYSA-N
156 QWCJHSGMANYXCW-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
202 IBLNKMRFIPWSOY-FNORWQNLSA-N
200 CXOXHMZGEKVPMT-UHFFFAOYSA-N

115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
200 CXOXHMZGEKVPMT-UHFFFAOYSA-N
202 IBLNKMRFIPWSOY-FNORWQNLSA-N
203 NIJJYAXOARWZEE-UHFFFAOYSA-N
203 NIJJYAXOARWZEE-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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200 CXOXHMZGEKVPMT-UHFFFAOYSA-N
200 CXOXHMZGEKVPMT-UHFFFAOYSA-N

115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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140 UYBGHBAVRNATET-VQTJNVASSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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118 CYQFCXCEBYINGO-UHFFFAOYSA-N
142 REOZWEGFPHTFEI-JKSUJKDBSA-N
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153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
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118 CYQFCXCEBYINGO-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N

118 CYQFCXCEBYINGO-UHFFFAOYSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
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153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
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115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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153 VBGLYOIFKLUMQG-UHFFFAOYSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
118 CYQFCXCEBYINGO-UHFFFAOYSA-N
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115 QHMBSVQNZZTUGM-ZWKOTPCHSA-N
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140 UYBGHBAVRNATET-VQTJNVASSA-N
142 REOZWEGFPHTFEI-JKSUJKDBSA-N
100 SUBDBMMJDZJVOS-UHFFFAOYSA-N
102 XMAYWYJOQHXEEK-OZXSUGGESA-N
101 LOUPRKONTZGTKE-LHHVKLHASA-N
156 QWCJHSGMANYXCW-UHFFFAOYSA-N
123 DQCKKXVULJGBQN-XFWGSAIBSA-N

Precipitant compound description	Object compound ID
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	213
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	118
	150
	100
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CBD derivative	25
CBD derivative	150
	150
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	100
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CBD derivative	100
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CBD derivative	108
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CBD derivative	108
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CBD derivative	86
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CBD derivative	86
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	118

Object compound unique ingredient identifier	Object compound InChI
	CYQFCXCEBYINGO-UHFFFAOYSA-N
	FIZZUEJIOKEFFZ-UHFFFAOYSA-M
	XKFSBWQWNMZWFA-UHFFFAOYSA-N
	MYFATKRONKHHQL-UHFFFAOYSA-N
	XKFSBWQWNMZWFA-UHFFFAOYSA-N
	CYQFCXCEBYINGO-UHFFFAOYSA-N
	CYQFCXCEBYINGO-UHFFFAOYSA-N
	CYQFCXCEBYINGO-UHFFFAOYSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
	OGWKCGZFUXNPDA-XQKSVPLYSA-N
	OZLGRUXZXMRXGP-UHFFFAOYSA-N
	OZLGRUXZXMRXGP-UHFFFAOYSA-N
	OGWKCGZFUXNPDA-XQKSVPLYSA-N
	OZLGRUXZXMRXGP-UHFFFAOYSA-N
	OGWKCGZFUXNPDA-XQKSVPLYSA-N
	QHMBSVQNZZTUGM-ZWKOTPCHSA-N
	CYQFCXCEBYINGO-UHFFFAOYSA-N
	KDXNYSZNOWTPLE-UHFFFAOYSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
	KDXNYSZNOWTPLE-UHFFFAOYSA-N
	KDXNYSZNOWTPLE-UHFFFAOYSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N

	SUBDBMMJDZJVOS-UHFFFAOYSA-N
	KDXNYSZNOWTPLE-UHFFFAOYSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
	KDXNYSZNOWTPLE-UHFFFAOYSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
D9818430MW	GMHKMTDVRCWUDX-LBPRGKRZSA-N
	KDXNYSZNOWTPLE-UHFFFAOYSA-N
	MYFATKRONKHHQL-UHFFFAOYSA-N
	MYFATKRONKHHQL-UHFFFAOYSA-N
	MYFATKRONKHHQL-UHFFFAOYSA-N
	MYFATKRONKHHQL-UHFFFAOYSA-N
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	MYFATKRONKHHQL-UHFFFAOYSA-N
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	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
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	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
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	UYXAWHWODHRRMR-UHFFFAOYSA-N
144O8QL0L1	DCOPUUMXTXDBNB-UHFFFAOYSA-N
	MUMGGOZAMZWBJJ-DYKIIFRCSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
7355X3ROTS	MKXZASYAUGDDCJ-NJAFHUGGSA-N
	SUBDBMMJDZJVOS-UHFFFAOYSA-N
144O8QL0L1	DCOPUUMXTXDBNB-UHFFFAOYSA-N
7355X3ROTS	MKXZASYAUGDDCJ-NJAFHUGGSA-N
	MUMGGOZAMZWBJJ-DYKIIFRCSA-N
	UWKQSNNFCGGAFS-XIFFEERXSA-N
	ZDZOTLJHXYCWBA-VCVYQWHSSA-N
	KKZJGLLVHKMTCM-UHFFFAOYSA-N
	KKZJGLLVHKMTCM-UHFFFAOYSA-N
	KKZJGLLVHKMTCM-UHFFFAOYSA-N
	XKFSBWQWNMZWFA-UHFFFAOYSA-N
	MYFATKRONKHHQL-UHFFFAOYSA-N
	PJMPHNIQZUBGLI-UHFFFAOYSA-N
7355X3ROTS	MKXZASYAUGDDCJ-NJAFHUGGSA-N

7355X3ROTS MKXZASYAUGDDCJ-NJAFHUGGSA-N

7355X3ROTS MKXZASYAUGDDCJ-NJAFHUGGSA-N

7355X3ROTS MKXZASYAUGDDCJ-NJAFHUGGSA-N
7355X3ROTS MKXZASYAUGDDCJ-NJAFHUGGSA-N
7355X3ROTS MKXZASYAUGDDCJ-NJAFHUGGSA-N

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HSUGRBWQSSZJOP-RTWAWAEBSA-N
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KKZJGLLVHKMTCM-UHFFFAOYSA-N
KKZJGLLVHKMTCM-UHFFFAOYSA-N
KKZJGLLVHKMTCM-UHFFFAOYSA-N

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CBVCZFGXHXORBI-PXQQMZJSSA-N
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HCAWPGARWVBULJ-UHFFFAOYSA-N
VBGLYOIFKLUMQG-UHFFFAOYSA-N
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