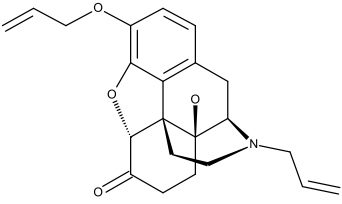
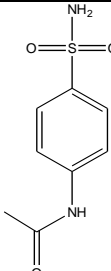
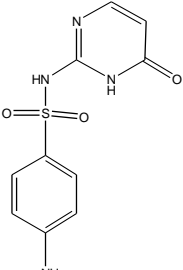
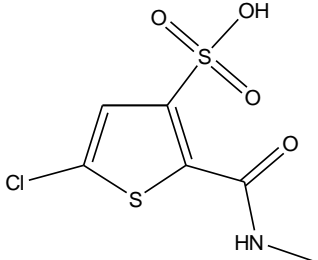


APIs AND METABOLITES

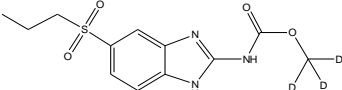
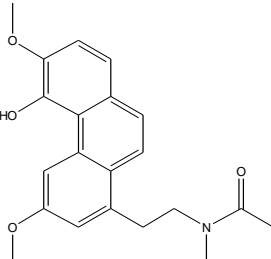
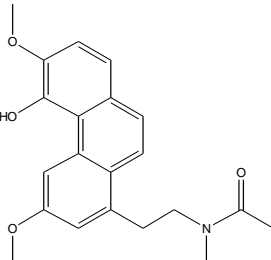
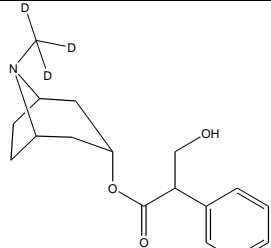
Item no. 10195	3-O-Allylnaloxone	
	Synonym	4,5alpha-Epoxy-14-hydroxy-17-(prop-2-enyl)-3-(prop-2-enyloxy)morphinan-6-one (3-O-allylnaloxone), Naloxone EP Impurity B
	CAS-No	1352085-46-1
	Molecular Formula	C ₂₂ H ₂₅ NO ₄
	Formula Weight	367.44
	InChI Key	IDDUCSVQXOGMNE-KDXIVRHGSA-N

Item no. 10173	4-Acetamidobenzenesulfonamide	
	Synonym	N4-Acetylsulfanilamide, 4'-Sulfamoylacetanilid, p-Sulfamoylacetanilide, p-Sulfamylacetanilide
	CAS-No	121-61-9
	Molecular Formula	C ₈ H ₁₀ N ₂ O ₃ S
	Formula Weight	214.24
	InChI Key	PKOFBDHYTMVVGJ-UHFFFAOYSA-N

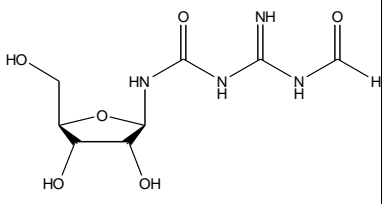
Item no. 10160	4-Hydroxysulfadiazine	
	Synonym	Sulfanilic acid-(6-oxo-1,6-dihydro-pyrimidin-2-ylamide), 4-Amino-N-(6-oxo-1H-pyrimidin-2-yl)benzenesulfonamide, Sulfadiazine Impurity 1, OH-SDZ
	CAS-No	56305-66-9
	Molecular Formula	C ₁₀ H ₁₀ N ₄ O ₃ S
	Formula Weight	266.27
	InChI Key	VSSDCIJVSFIVLR-UHFFFAOYSA-N

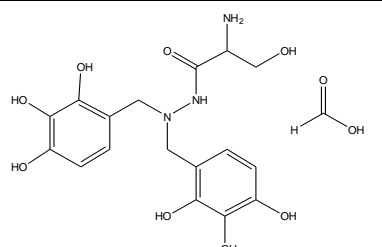
Item no. 10107	5-Chloro-2-methylcarbamoylthiophene-3-sulfonic acid	
	Synonym	Lornoxicam Impurity
	CAS-No	
	Molecular Formula	C ₆ H ₆ ClNO ₄ S ₂
	Formula Weight	255.7
	InChI Key	VUMAFSXBFDKENO-ZQTLJVIJSA-N

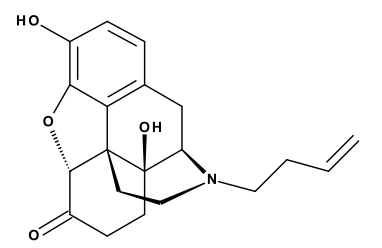
APIs AND METABOLITES

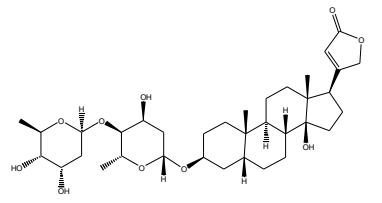
<p>Item no. 20093</p> 	<p>Albendazole sulfone-(methyl-d3)</p> <p>Synonym</p> <p>CAS-No 1448345-60-5</p> <p>Molecular Formula $C_{12}H_{12}D_3N_3O_4S$ Fehler! Textmarke nicht definiert.</p> <p>Formula Weight 300.35</p> <p>InChI Key CLSJYOLYMZKNJB-BMSJAHLVSA-N</p>
<p>Item no. 10082</p> 	<p>ATM4</p> <p>Synonym</p> <p>CAS-No</p> <p>Molecular Formula $C_{21}H_{23}NO_4$</p> <p>Formula Weight 353.42</p> <p>InChI Key RAMVLATWMWLVSK-UHFFFAOYSA-N</p>
<p>Item no. 10082</p> 	<p>ATM4 - glucuronide</p> <p>Synonym</p> <p>CAS-No</p> <p>Molecular Formula $C_{27}H_{31}NO_{10}$</p> <p>Formula Weight 529.54</p> <p>InChI Key YCKZZXIOZQRGTK-PNHQUMKHS-A-N</p>
<p>Item no. 20146</p> 	<p>Atropin-d3</p> <p>Synonym</p> <p>CAS-No 51-55-8 (unlabelled)</p> <p>Molecular Formula $C_{17}H_{20}D_3NO_3$</p> <p>Formula Weight 292.39</p> <p>InChI Key RKUNBYITZUJHSG-FIBGUPNXSA-N</p>

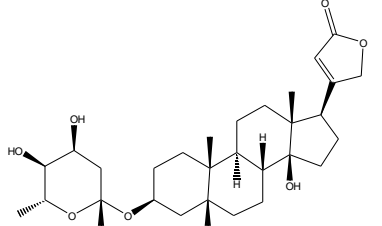
APIs AND METABOLITES

Item no. 10100	Azacitidine Impurity 8
	Synonym N-(Formylamidino)-N-β-D-ribofuranosylurea
	CAS-No 65126-88-7
	Molecular Formula C ₈ H ₁₄ N ₄ O ₆
	Formula Weight 262.22
	InChI Key KLSAIGPSXJMEX-YLZRJQLMSA-N

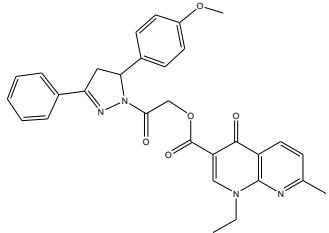
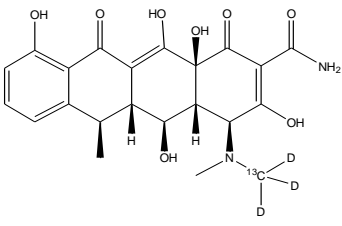
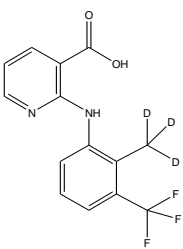
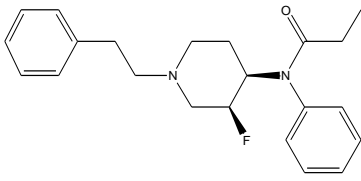
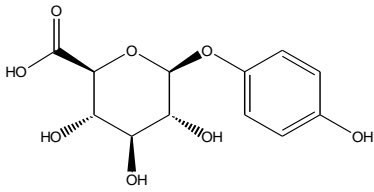
Item no. 10063	Benserazide Impurity B formate
	Synonym
	CAS-No
	Molecular Formula C ₁₈ H ₂₃ N ₃ O ₁₀
	Formula Weight 441.39
	InChI Key KZVDTFFLMRNQAB-UHFFFAOYSA-N

Item no. 10213	N-Butenylnoroxymorphone
	Synonym Naltrexone Impurity C, 17-But-3-enyl-4,5α-epoxy-3,14-dihydroxymorphinan-6-one, (5α)-17-(3-Buten-1-yl)-4,5-epoxy-3,14-dihydroxymorphinan-6-one
	CAS-No 189016-90-8
	Molecular Formula C ₂₀ H ₂₃ NO ₄
	Formula Weight 341.41
	InChI Key AGAIYDYACAKVRE-XFWGSAIBSA-N

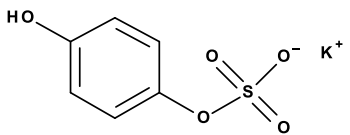
Item no. 10014	Digitoxigenin-bisdigitoxoside
	Synonym
	CAS-No 16479-50-8
	Molecular Formula C ₃₅ H ₅₄ O ₁₀
	Formula Weight 634.81
	InChI Key CERUVRSAHAFOLZ-IQVVVBTISA-N

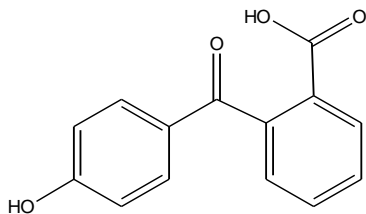
Item no. 10013	Digitoxigenin-monodigitoxoside
	Synonym
	CAS-No 18404-43-8
	Molecular Formula C ₂₉ H ₄₄ O ₇
	Formula Weight 504.66
	InChI Key NQOMDNMTNVQXRR-WQLPVBBFSA-N

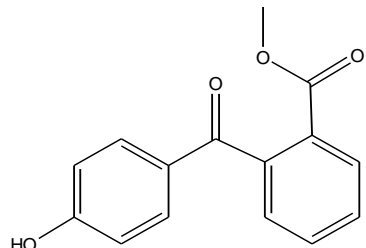
APIs AND METABOLITES

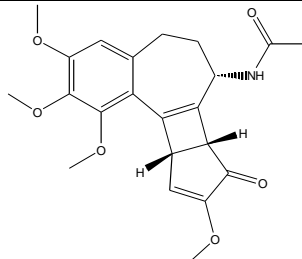
<p>Item no. 10002</p> 	<p>1,4-Dihydronaphthyridin[1,8]-3-carboxylic ester</p> <p>Synonym</p> <p>CAS-No</p> <p>Molecular Formula $C_{30}H_{28}N_4O_5$</p> <p>Formula Weight 524.58</p> <p>InChI Key KOCGAISROLUQOX-UHFFFAOYSA-N</p>
<p>Item no. 20249</p> 	<p>Doxycycline-13C,d3</p> <p>Synonym</p> <p>CAS-No 10592-13-9 (unlabelled)</p> <p>Molecular Formula $C_{22}H_{21}D_3N_2O_8$</p> <p>Formula Weight 448.47</p> <p>InChI Key JBIWCJUYHHGXTC-IKYXREPWSA-N</p>
<p>Item no. 20038</p> 	<p>Flunixin-d3</p> <p>Synonym 2-[[2-(trideuteriomethyl)-3-(trifluoromethyl)phenyl]amino]pyridine-3-carboxylic acid</p> <p>CAS-No 1015856-60-6</p> <p>Molecular Formula $C_{14}H_8D_3F_3N_2O_2$</p> <p>Formula Weight 299.27</p> <p>InChI Key NOOCSNJCXJYGPE-FIBGUPNXSA-N</p>
<p>Item no. 10032</p> 	<p>3-Fluoro-fentanyl</p> <p>Synonym rac-(3RS,4SR)-3-Fluoro-fentanyl</p> <p>CAS-No 1422952-82-6 (used for undefined stereochemistry)</p> <p>Molecular Formula $C_{44}H_{54}F_2N_4O_2$</p> <p>Formula Weight 708.93</p> <p>InChI Key DMCQJJAWMFBPOX-LEWJYISDSA-N</p> <p><small>Lit.: "A nontoxic pain killer designed by modeling of pathological receptor conformations"</small></p> <p>http://science.sciencemag.org/content/355/6328/966</p>
<p>Item no. 10049</p> 	<p>Hydroquinone glucuronide</p> <p>Synonym Hydroquinone-β-D- glucuronide</p> <p>CAS-No</p> <p>Molecular Formula $C_{12}H_{14}O_8$</p> <p>Formula Weight 286.24</p> <p>InChI Key KCWGTTYNHQOGSJ-GOVZDWNOSA-N</p>

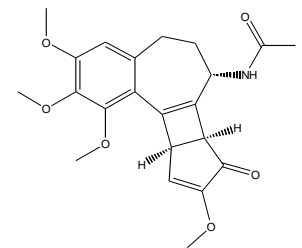
APIs AND METABOLITES

Item no. 10141	Hydroquinone monosulfate potassium salt	
	Synonym	
	CAS-No	37067-27-9
	Molecular Formula	C ₆ H ₅ KO ₅ S
	Formula Weight	228.3
	InChI Key	KYQHUXZXYUBUPX-UHFFFAOYSA-M

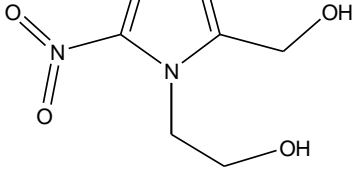
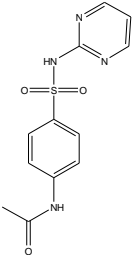
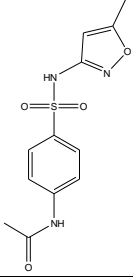
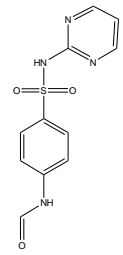
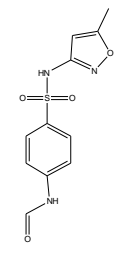
Item no.	Impurity KHBB	
	Synonym	2-(4-Hydroxybenzoyl)benzoic acid
	CAS-No	85-57-4
	Molecular Formula	C ₁₄ H ₁₀ O ₄
	Formula Weight	242.23
	InChI Key	VUMAFSXBFDKENO-ZQTLJVIJSA-N

Item no. 10109	Impurity MeKHBB	
	Synonym	2-(4-Hydroxybenzoyl)benzoic acid methylester, (Impurity MeKHBB)
	CAS-No	21147-23-9
	Molecular Formula	C ₁₅ H ₁₂ O ₄
	Formula Weight	256.26
	InChI Key	YAGMQCGSPXAXRS-MKDBGYCYSAN

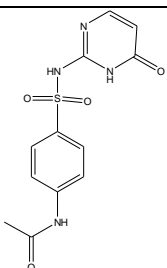
Item no. 10071	beta-Lumicolchicine	
	Synonym	β- Lumicolchicine, Impurity C
	CAS-No	6901-13-9
	Molecular Formula	C ₂₂ H ₂₅ NO ₆
	Formula Weight	399.44
	InChI Key	VKPVZFOUXUQJMW-FHSNZYRGSA-N

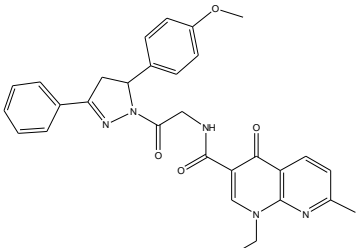
Item no. 10072	gamma-Lumicolchicine	
	Synonym	γ- Lumicolchicine, Impurity G
	CAS-No	6901-14-0
	Molecular Formula	C ₂₂ H ₂₅ NO ₆
	Formula Weight	399.44
	InChI Key	VKPVZFOUXUQJMW-XYEKJYRLSA-N

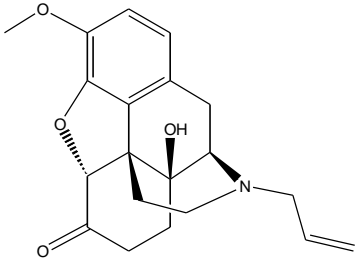
APIs AND METABOLITES

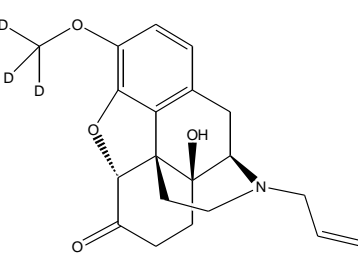
<p>Item no. 10015</p> 	<p>Metronidazole-OH</p> <p>Synonym</p> <p>CAS-No 4812-40-2</p> <p>Molecular Formula C₆H₉N₃O₄</p> <p>Formula Weight 187.15</p> <p>InChI Key AEHPOYAOLCAMIU-UHFFFAOYSA-N</p>
<p>Item no. 10163</p> 	<p>N4-Acetylsulfadiazine</p> <p>Synonym N-[4-[(2-Pyrimidinylamino)sulfonyl]phenyl]acetamide; 2-[(p-Acetamidophenyl)sulfonamido]pyrimidine; N-Acetyl Sulfadiazine; 4'-(2-Pyrimidinylsulfonyl)acetanilide; 4N-Acetylsulfadiazine, 4N-Ac-SDZ</p> <p>CAS-No 127-74-2</p> <p>Molecular Formula C₁₂H₁₂N₄O₃S</p> <p>Formula Weight 292.31</p> <p>InChI Key NJIZUWGMNCUKGU-UHFFFAOYSA-N</p>
<p>Item no. 10162</p> 	<p>N4-Acetylsulfamethoxazole</p> <p>Synonym N-[4-[(5-Methyl-3-isoxazolyl)amino]sulfonyl]phenyl]acetamide, N-Acetyl sulfamethoxazole, Acetyl-sulfamethoxazole, N4-Acetylsulfamethoxazole, Sulfisomezole-N4-acetate, Sulfamethoxazole Impurity A, Sulfamethoxazole Related Compound A, STX 606</p> <p>CAS-No 21312-10-7</p> <p>Molecular Formula C₁₂H₁₃N₃O₄S</p> <p>Formula Weight 295.31</p> <p>InChI Key GXPIUNZCALHVBA-UHFFFAOYSA-N</p>
<p>Item no. 10168</p> 	<p>N4-Formylsulfadiazine</p> <p>Synonym</p> <p>CAS-No</p> <p>Molecular Formula C₁₁H₁₀N₄O₃S</p> <p>Formula Weight 278.29</p> <p>InChI Key OVELYWMDNFICW-UHFFFAOYSA-N</p>
<p>Item no. 10164</p> 	<p>N4-Formylsulfamethoxazole</p> <p>Synonym 4N-Formylsulfamethoxazole, N-Formyl Sulfamethoxazole</p> <p>CAS-No</p> <p>Molecular Formula C₁₁H₁₁N₃O₄S</p> <p>Formula Weight 281.29</p> <p>InChI Key DXNIIIXRPZWMQFC-UHFFFAOYSA-N</p>

APIs AND METABOLITES

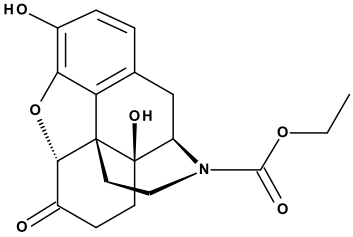
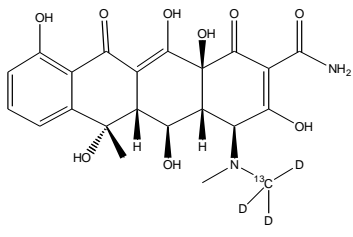
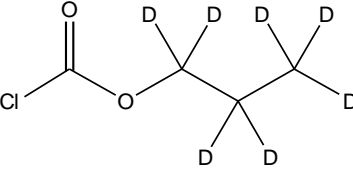
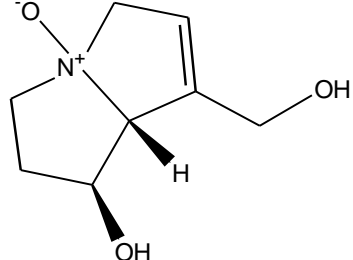
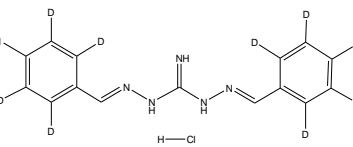
Item no. 10161	N-Acetyl-4-hydroxy-sulfadiazine
	Synonym AC-OH-SDZ, N-Acetyl-4-hydroxysulfadiazine
	CAS-No
	Molecular Formula C₁₂H₁₂N₄O₄S
	Formula Weight 308.31
	InChI Key LNRZJYGHQQDXJZ-UHFFFAOYSA-N

Item no. 10110	Nalidixic acid {2-[5-(4-methoxy-phenyl)-3-phenyl-4,5-dihydro-1H-pyrazol-1-yl]-2-oxo-ethyl}-amide
	Synonym Nalidixic acid amide
	CAS-No
	Molecular Formula C₃₀H₂₉N₅O₄
	Formula Weight 523.59
	InChI Key KSRZXSJCONKBW-UHFFFAOYSA-N

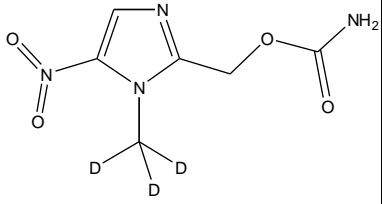
Item no. 10157	Naloxone 3-Methyl Ether
	Synonym 4,5a-epoxy-14-hydroxy-3-methoxy-17-(prop-2-enyl)morphinan-6-one (3-O-methylnaloxone), 3-O-Methyl-Naloxone, Naloxone Impurity 1, Naloxone EP Impurity G
	CAS-No 70866-64-7
	Molecular Formula C₂₀H₂₃NO₄
	Formula Weight 341.41
	InChI Key SSVPTPGFVKXIRF-XFWGSAIBSA-N

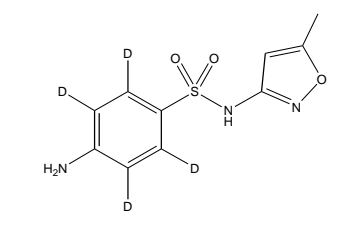
Item no. 20279	Naloxone 3-Methyl Ether-d3
	Synonym 4,5a-epoxy-14-hydroxy-3-methoxy-17-(prop-2-enyl)morphinan-6-one-d3 (3-O-methylnaloxone-d3), 3-O-Methyl-Naloxone-d3, Naloxone Impurity 1-d3, Naloxone EP Impurity G-d3
	CAS-No 70866-64-7 (unlabelled)
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	Formula Weight 344.42
	InChI Key SSVPTPGFVKXIRF-ALZDXQMHSA-N

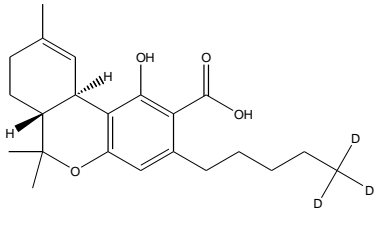
APIs AND METABOLITES

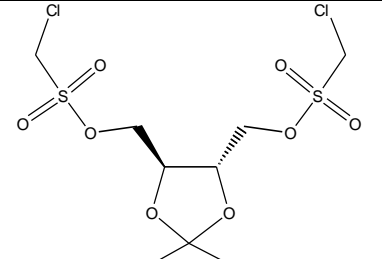
<p>Item no. 10204</p> 	<p>Naloxone Norcarbamate</p> <p>Synonym</p> <p>CAS-No 144265-46-3 Molecular Formula C₁₉H₂₁NO₆ Formula Weight 359.38 InChI Key VKKGYMPXUABXFV-SKSLQVBQSA-N</p>
<p>Item no. 20278</p> 	<p>Oxytetracycline-13C,d3</p> <p>Synonym Oxytetracycline-13C,d3, Glomycine-13C,d3, Riomitsin-13C,d3, OTC-13C,d3</p> <p>CAS-No 79-57-2 (unlabelled) Molecular Formula C₂₂H₂₁D₃N₂O₉ Formula Weight 464.47 InChI Key IWVCMVBTMGNXQD-IXJVUGTRSA-N</p>
<p>Item no. 20268</p> 	<p>Propyl-d7 chloroformate</p> <p>Synonym</p> <p>CAS-No 1228182-42-0 Molecular Formula C₄ClD₇O₂ Formula Weight 129.59 InChI Key QQKDTTWZXHEGAQ-NCKGIQLSSA-N</p>
<p>Item no. 10105</p> 	<p>Retronecin-N-oxide</p> <p>Synonym 7-Hydroxymethyl-4-oxy-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-ol, Retronecin-N-oxid</p> <p>CAS-No 6870-33-3 Molecular Formula C₈H₁₃NO₃ Formula Weight 171.20 InChI Key VUMAFSXBFDKENO-ZQTLJVIJSA-N</p>
<p>Item no. 20118</p> 	<p>Robenidine-d8 HCl</p> <p>Synonym</p> <p>CAS-No 1173097-77-2 Molecular Formula C₁₅H₆Cl₃D₈N₅ Formula Weight 378.72 InChI Key HAORKNGNJCEJBX-VIQYUKPQSA-N</p>

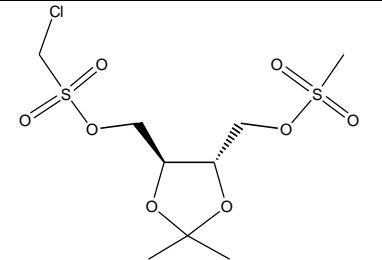
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Item no. 20199	Ronidazole-d3
	<p>Synonym 2-(Carbamoyloxymethyl)-1-methyl-d3-5-nitroimidazole</p> <p>CAS-No 1015855-87-4</p> <p>Molecular Formula C₆H₅D₃N₄O₄</p> <p>Formula Weight 203.17</p> <p>InChI Key PQFRTXSWDXZRRS-FIBGUPNXSA-N</p>

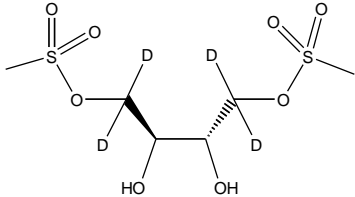
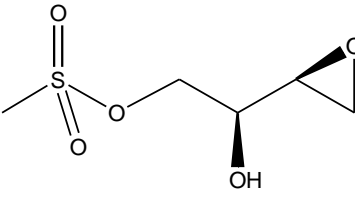
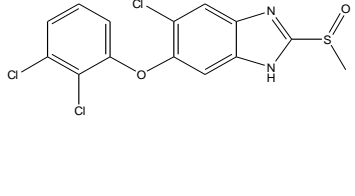
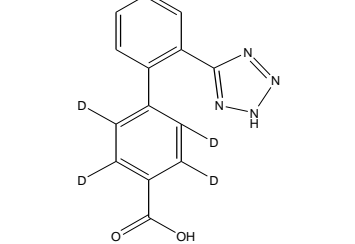
Item no. 20075	Sulfamethoxazol-d4
	<p>Synonym Gantanol-d4, Radonil-d4, Sinomin-d4</p> <p>CAS-No 1020719-86-1</p> <p>Molecular Formula C₁₀H₇D₄N₃O₃S</p> <p>Formula Weight 257.30</p> <p>InChI Key JLKIGFTWXXRPMT-QFFDRWTDSA-N</p>

Item no. 20275	delta9-Tetrahydrocannabinolic acid-d3
	<p>Synonym delta9-Tetrahydrocannabinolic acid A-d3, delta(9)-Tetrahydrocannabinolic acid A-d3, THC-acid-d3, THCA-d3, THCA-A-d3, 9-Carboxy-delta(9)-THC-d3, 9-Carboxy-THC-d3, [D3]THC-9-COOH</p> <p>CAS-No 23978-85-0 (unlabelled)</p> <p>Molecular Formula C₂₂H₂₇D₃O₄</p> <p>Formula Weight 361.49</p> <p>InChI Key UCONUSSAWGCZMV-FWHYEAKOSA-N</p>

Item no. 10122	Treosulfan Impurity 1
	<p>Synonym Chloromethanesulfonic acid (4S,5S)-5-chloromethanesulfonyloxymethyl-2,2-dimethyl-[1,3]dioxolan-4-ylmethyl ester</p> <p>CAS-No</p> <p>Molecular Formula C₉H₁₆Cl₂O₈S₂</p> <p>Formula Weight 387.25</p> <p>InChI Key RAPXSUJDVIXVDD-YUMQZZPRNA-N;</p>

Item no. 10123	Treosulfan Impurity 2
	<p>Synonym Chloromethanesulfonic acid (4S,5S)-5-methanesulfonyloxymethyl-2,2-dimethyl-[1,3]dioxolan-4-ylmethyl ester</p> <p>CAS-No</p> <p>Molecular Formula C₉H₁₇ClO₈S₂</p> <p>Formula Weight 352.80</p> <p>InChI Key SFJSJOGJAHDQSL-YUMQZZPRSA-N</p>

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<p>Item no. 20266</p> 	<p>Treosulfan-d4</p> <p>Synonym (2S,3S)-2,3-dihydroxy-4-(methanesulfonyloxy)(1,1,4,4-D4)butyl methanesulfonate</p> <p>CAS-No 299-75-2 (unlabelled)</p> <p>Molecular Formula C₆H₁₀D₄O₈S₂</p> <p>Formula Weight 282.32</p> <p>InChI Key YCPOZVAOBBQLRI-OGDJEXPBSA-N</p>
<p>Item no. 10060</p> 	<p>Treosulfan-monoepoxyd</p> <p>Synonym</p> <p>CAS-No 30031-63-1</p> <p>Molecular Formula C₅H₁₀O₅S</p> <p>Formula Weight 182.19</p> <p>InChI Key RWHFAHDZGBOUSK-WHFBIKZSA-N</p>
<p>Item no. 10007</p> 	<p>Triclabendazole sulfoxide</p> <p>Synonym TCBZSO</p> <p>CAS-No 100648-13-3</p> <p>Molecular Formula C₁₄H₉Cl₃N₂O₂S</p> <p>Formula Weight 375.66</p> <p>InChI Key GABQPFWIQFRJSE-UHFFFAOYSA-N</p>
<p>Item no. 20267</p> 	<p>Valsartan acid-d4</p> <p>Synonym 2'-(2H-Tetrazol-5-yl)-[1,1'-biphenyl]-4-carboxylic acid-d4, 2'-(1H-Tetrazol-5-yl)-[1,1'-biphenyl]-4-carboxylic acid-d4</p> <p>CAS-No 164265-78-5 (unlabelled)</p> <p>Molecular Formula C₁₄H₆D₄N₄O₂</p> <p>Formula Weight 270.28</p> <p>InChI Key USAWIVMZUYOXCF-KDWZCNHSSA-N</p>



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