National Deuteration Facility

Product List

March 2024

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NDF-A. Carboxylic acids, alcohols, amines, alkyl halides, thiols, alkanes

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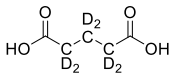
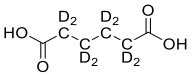
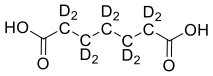
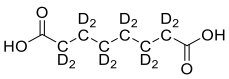
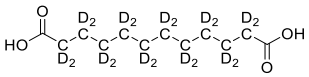
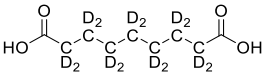
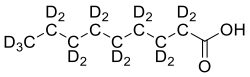
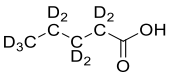
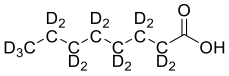
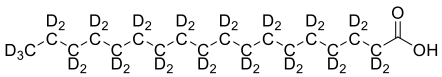
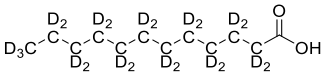
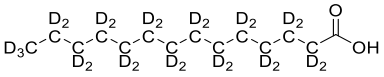
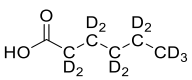
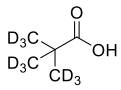
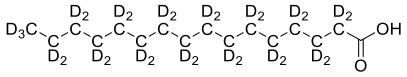
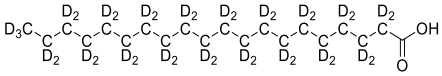
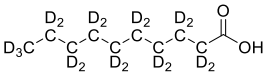
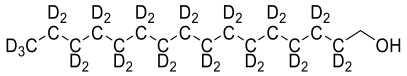
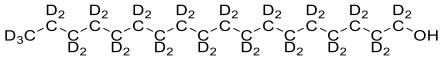
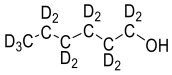
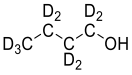
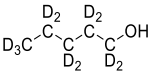
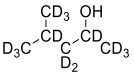
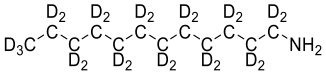
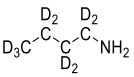
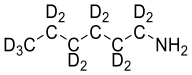
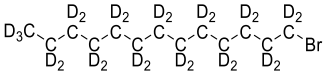
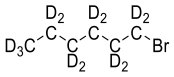
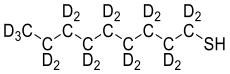
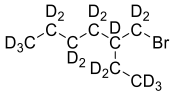
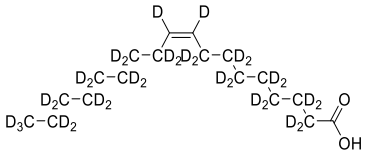
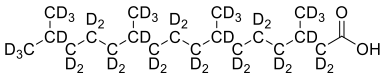
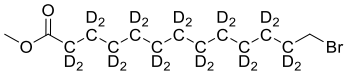
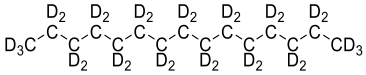
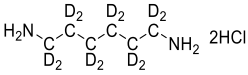
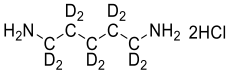
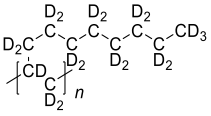
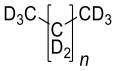
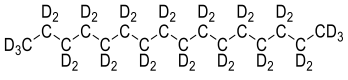
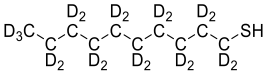
NDF-A-001	Pentanedioic acid-d_6 Glutaric acid-d_6	
NDF-A-002	Hexanedioic acid-d_8 Adipic acid-d_8	
NDF-A-003	Heptanedioic acid-d_{10} Pimelic acid-d_{10}	
NDF-A-004	Octanedioic acid-d_{12} Suberic acid-d_{12}	
NDF-A-005	Dodecanedioic acid-d_{20}	
NDF-A-006	Azelaic acid-d_{14} http://dx.doi.org/10.1002/jlcr.3088	
NDF-A-007	Nonanoic acid-d_{17} http://dx.doi.org/10.1002/jlcr.3088	
NDF-A-008	Pentanoic acid-d_9	
NDF-A-009	Octanoic acid-d_{15} Caprylic acid-d_{15} http://dx.doi.org/10.1016/j.eurpolymj.2018.05.031 https://doi.org/10.1016/j.jcis.2014.11.026 http://dx.doi.org/10.1039/C4SC02064B	
NDF-A-010	Octadecanoic acid-d_{35} 1-Heptadecanecarboxylic acid-d_{35} Stearic acid-d_{35} https://doi.org/10.1016/j.colsurfb.2019.110362 http://dx.doi.org/10.1039/C5CP02702K	
NDF-A-011	Dodecanoic acid-d_{23} Lauric acid-d_{23} https://doi.org/10.1016/j.jcis.2014.11.026	
NDF-A-012	Tetradecanoic acid-d_{27} Myristic acid-d_{27} https://doi.org/10.1016/j.jcis.2014.11.026	
NDF-A-013	Hexanoic acid-d_{11} https://doi.org/10.1016/j.tetlet.2013.03.031	

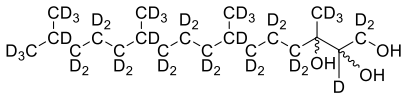
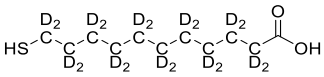
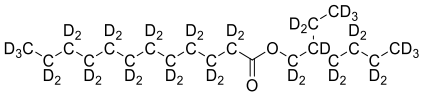
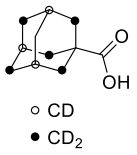
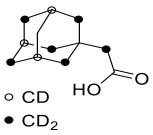
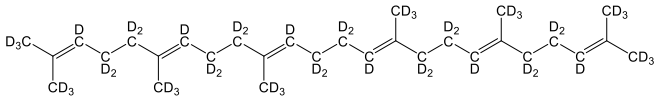
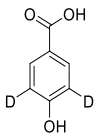
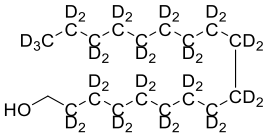
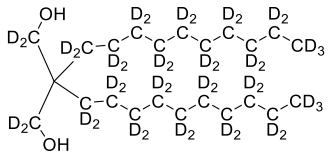
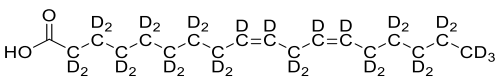
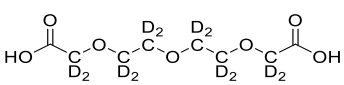
NDF-A. Carboxylic acids, alcohols, amines, alkyl halides, thiols, alkanes

Product code	Compound name/synonyms Publication links	Chemical structure
NDF-A-014	2,2-Dimethylpropionic acid-d_9 Trimethylacetic acid-d_9 Pivalic acid-d_9	
NDF-A-015	Hexadecanoic acid-d_{31} Palmitic acid-d_{31} https://doi.org/10.1016/j.colsurfb.2019.110362 https://doi.org/10.1039/C7CE01303E http://dx.doi.org/10.1002/cplu.201500452	
NDF-A-016	Arachidic acid-d_{39} Eicosanoic acid-d_{39}	
NDF-A-017	Decanoic acid-d_{19} https://doi.org/10.1016/j.chemphyslip.2015.06.007	
NDF-A-018	1-Hexadecanol-d_{31}	
NDF-A-019	1-Octadecanol-d_{37} Steryl alcohol-d_{37} http://dx.doi.org/10.1021/la400143k	
NDF-A-020	1-Hexanol-d_{13}	
NDF-A-021	1-Butanol-d_9	
NDF-A-022	1-Pentanol-d_{11}	
NDF-A-023	4-Methyl-2-pentanol-d_{13}	
NDF-A-024	Dodecylamine-d_{25}	
NDF-A-025	1-Butylamine-d_9 https://doi.org/10.1016/j.tetlet.2013.03.031	
NDF-A-026	1-Hexylamine-d_{13} https://doi.org/10.1016/j.tetlet.2013.03.031	
NDF-A-027	1-Bromotridecane-d_{27}	

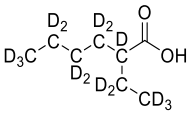
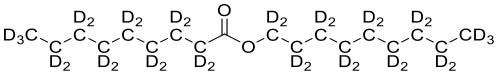
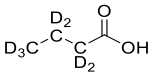
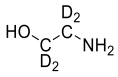
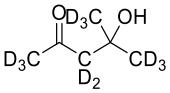
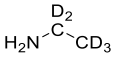
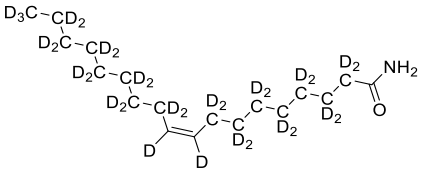
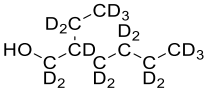
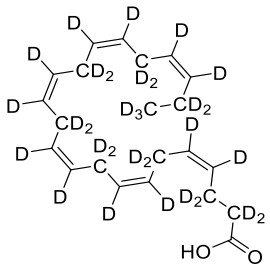
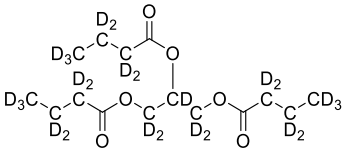
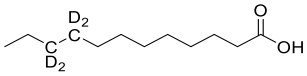
NDF-A. Carboxylic acids, alcohols, amines, alkyl halides, thiols, alkanes

Product code	Compound name/synonyms Publication links	Chemical structure
NDF-A-028	1-Bromohexane-d_{13}	
NDF-A-029	Nonane-1-thiol-d_{19}	
NDF-A-030	2-Ethylhexyl bromide-d_{17}	
NDF-A-031	Oleic acid-d_{33} http://dx.doi.org/10.1002/cplu.201500452 http://dx.doi.org/10.1002/jlcr.3088	
NDF-A-032	Phytanic acid-d_{39} https://doi.org/10.1016/j.jcis.2018.09.022 https://doi.org/10.1016/j.chemphyslip.2014.04.004	
NDF-A-033	Methyl 13-bromotridecanoate-d_{22}	
NDF-A-034	Pentadecane-d_{32}	
NDF-A-035	Hexamethalenediamine-d_{12}.2HCl	
NDF-A-036	Pentamethylenediamine-d_{10}.2HCl	
NDF-A-037	Deuterated poly (1-decene) http://dx.doi.org/10.1039/D0PY00690D	
NDF-A-038	Deuterated mineral oil http://dx.doi.org/10.1039/D0PY00690D	 Mixture of deuterated higher alkanes
NDF-A-039	Hexadecane-d_{34}	
NDF-A-040	Decane-1-thiol-d_{21}	

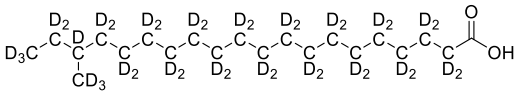
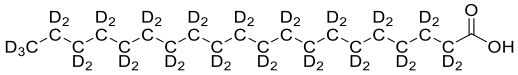
NDF-A. Carboxylic acids, alcohols, amines, alkyl halides, thiols, alkanes

Product code	Compound name/synonyms Publication links	Chemical structure
NDF-A-041	Phytantriol-d_{39} https://doi.org/10.1016/j.jcis.2018.09.022 http://dx.doi.org/10.3389/fchem.2020.619470	
NDF-A-042	11-mercaptoundecanoic acid-d_{20} https://doi.org/10.1021/acs.chemmater.9b01209 http://dx.doi.org/10.1038/s41467-018-03699-7	
NDF-A-043	(2-Ethylhexyl)laurate-d_{40} https://doi.org/10.1038/s41598-022-22504-6	
NDF-A-044	Adamantane carboxylic acid-d_{15}	
NDF-A-045	Adamantane acetic acid-d_{17}	
NDF-A-046	Squalene-d_{50}	
NDF-A-047	d_2,d_4-Hydroxybenzoic acid	
NDF-A-048	Stearyl alcohol-d_{35}	
NDF-A-049	2,2-Didecylpropane-1,3-diol-d_{46}	
NDF-A-050	Linoleic acid-d_{31} https://doi.org/10.1002/adsc.202200616	
NDF-A-051	3,6,9-trioxaundecanedioic acid-d_{12}	

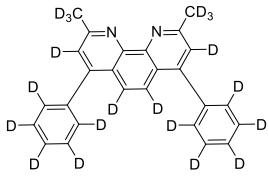
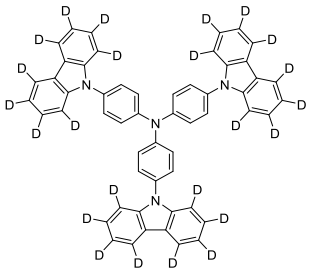
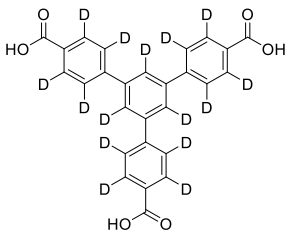
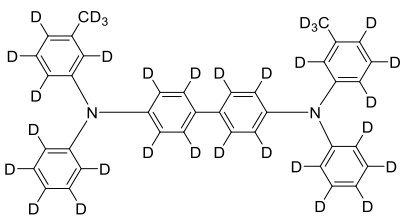
NDF-A. Carboxylic acids, alcohols, amines, alkyl halides, thiols, alkanes

Product code	Compound name/synonyms Publication links	Chemical structure
NDF-A-052	2-ethylhexanoic acid-d_{15}	
NDF-A-053	Nonyl nonanoate-d_{36}	
NDF-A-054	Butyric acid-d_7 Butanoic acid-d_7	
NDF-A-055	Ethanolamine-d_4	
NDF-A-056	Diacetone alcohol-d_{11}	
NDF-A-057	Ethylamine-d_5 (Supplied in D_2O)	
NDF-A-058	Oleamide-d_{33}	
NDF-A-059	2-Ethylhexan-1-ol-d_{17}	
NDF-A-060	DHA	
NDF-A-061	Tributyrin-d_{26}	
NDF-A-062	Dodecanoic-9,9,10,10-d_4 acid Lauric acid-d_4	

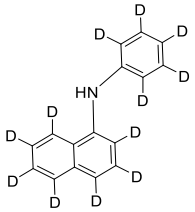
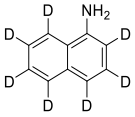
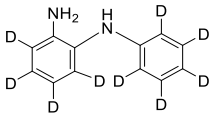
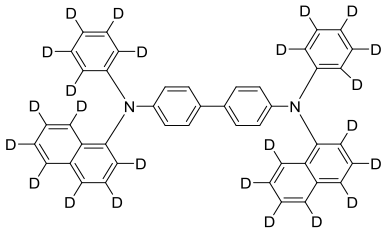
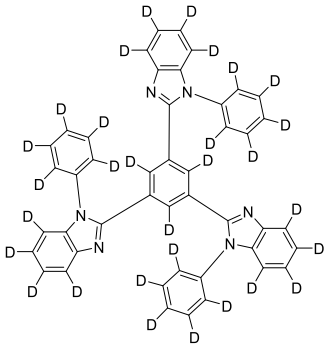
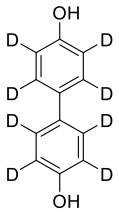
NDF-A. Carboxylic acids, alcohols, amines, alkyl halides, thiols, alkanes

Product code	Compound name/synonyms Publication links	Chemical structure
NDF-A-063	18-Methyleicosanoic-d_{41} acid	
NDF-A-064	Eicosanoic-d_{39} acid	

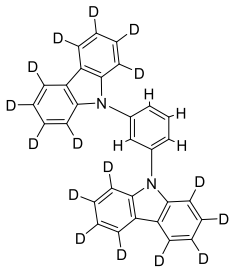
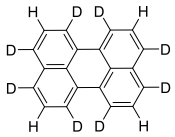
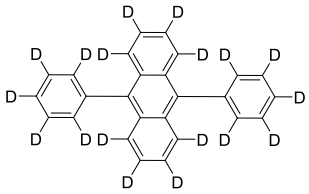
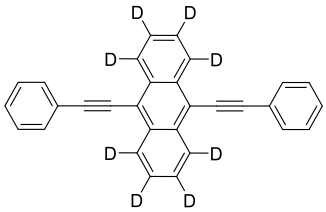
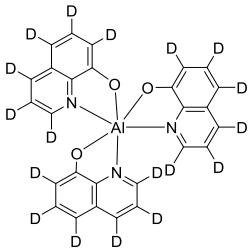
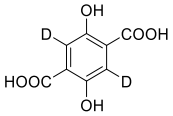
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-001	Bathocuproine-d_{20} BCP-d_{20} 2,9-Dimethyl-4,7-diphenyl-1,10-phenanthroline-d_{20} https://doi.org/10.1016/j.tetlet.2011.12.032 https://doi.org/10.1002/admi.201700872 https://doi.org/10.1002/sdtp.11839 https://doi.org/10.1016/j.aca.2016.05.003 https://doi.org/10.1002/admi.201600184 http://dx.doi.org/10.1002/adma.201104029 http://dx.doi.org/10.1002/adfm.201002365	
NDF-B-002	Tris(4-carbazoyl-9-ylphenyl)amine-d_{24} TCTA-d_{24} https://doi.org/10.1016/j.tetlet.2011.12.032 https://doi.org/10.1021/acsami.7b15542 http://dx.doi.org/10.1002/adma.201104029 http://dx.doi.org/10.1002/adfm.201002365	
NDF-B-003	1,3,5-Tris(4-carboxyphenyl)benzene-d_{15} BTB-d_{15} https://doi.org/10.1002/anie.201311055	
NDF-B-004	*N*,*N*′-Bis(3-methylphenyl)-*N*,*N*′-diphenylbenzidine-d_{32} TPD-d_{32} https://doi.org/10.1002/admi.201700872 https://doi.org/10.1002/sdtp.11839 https://doi.org/10.1002/admi.201600184	

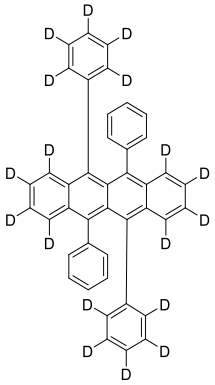
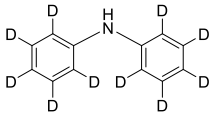
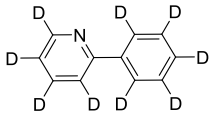
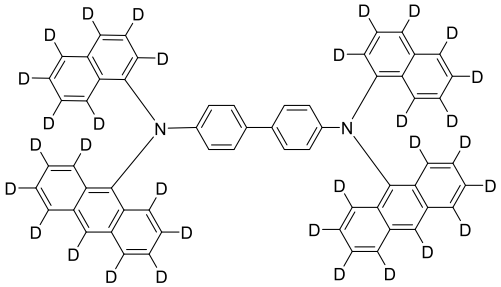
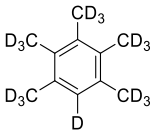
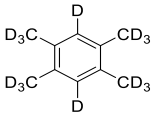
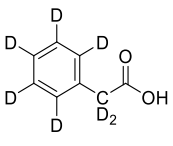
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-005	*N*-Phenylnaphthylamine-d_{12} https://doi.org/10.3390/molecules191118604	
NDF-B-006	1-Naphthylamine-d_7 https://doi.org/10.3390/molecules191118604	
NDF-B-007	*N*-Phenyl-*o*-phenylenediamine-d_9 https://doi.org/10.3390/molecules191118604	
NDF-B-008	*N*,*N*′-Di(1-naphthyl)-*N*,*N*′-diphenyl-(1,1′-biphenyl)-4,4′-diamine-d_{24} NPD-d_{24} NPB-d_{24} https://doi.org/10.1021/acsami.7b01450 https://doi.org/10.1002/admi.201600184	
NDF-B-009	2,2′,2"-(1,3,5-Benzinetriyl)-tris(1-phenyl-1-*H*-benzimidazole)-d_{30} TPBi-d_{30} https://doi.org/10.1021/acsami.7b01450 https://doi.org/10.1002/admi.201600184	
NDF-B-010	Biphenol-d_8 https://doi.org/10.1021/acs.chemmater.5b04538	

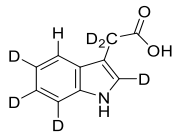
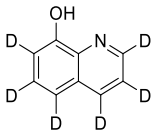
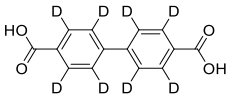
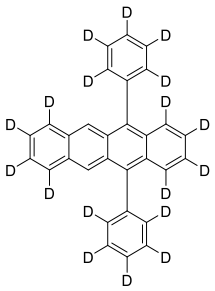
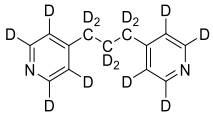
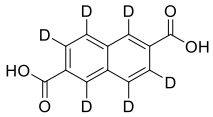
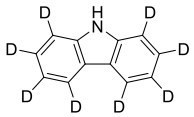
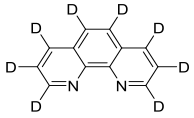
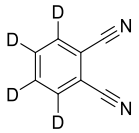
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-011	1,3-Bis(*N*-carbazolyl)benzene mCP-d_{16}	
NDF-B-012	Perylene-d_8 https://doi.org/10.1021/acs.jpclett.5b01271	
NDF-B-013	9,10-Diphenyl anthracene-d_{18}	
NDF-B-014	9,10-Diphenylethenyl-anthracene-d_8	
NDF-B-015	Alq_3-d_{18} Tris-(8-hydroxyquinoline) aluminium-d_{18} https://doi.org/10.1021/acsami.7b01450	
NDF-B-016	DHTPA-d_2 2,5-Dihydroxyterephthalic acid-d_2 2,5-Dihydroxy-1,4-benzenedicarboxylic acid-d_2 http://dx.doi.org/10.1039/C4SC02064B	

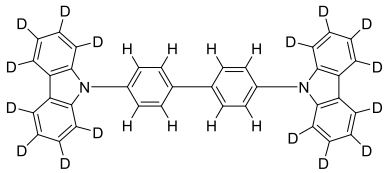
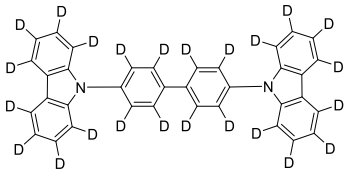
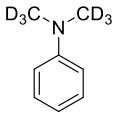
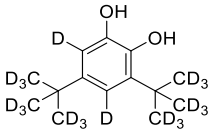
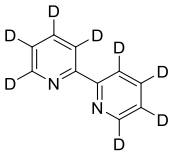
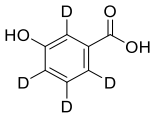
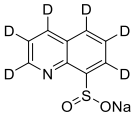
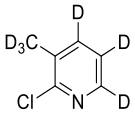
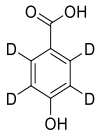
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-017	Rubrene-d_{18} 5,6,11,12-Tetraphenyltetracene-d_{18}	
NDF-B-018	Diphenylamine-d_{10} https://doi.org/10.3390/molecules191118604	
NDF-B-019	2-Phenylpyridine-d_9	
NDF-B-020	NAD-d_{32} https://doi.org/10.1021/acsami.7b01450	
NDF-B-021	1,2,3,4,5-Pentamethylbenzene-d_{16}	
NDF-B-022	Durene-d_{14} https://doi.org/10.1016/j.aca.2016.05.003	
NDF-B-023	Phenylacetic acid-d_7 https://doi.org/10.1021/acs.chemmater.9b01209 http://dx.doi.org/10.1038/s41467-018-03699-7	

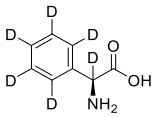
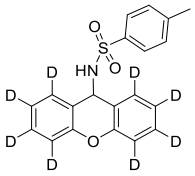
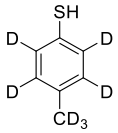
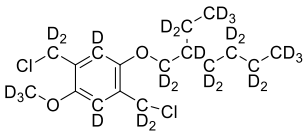
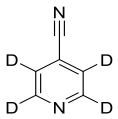
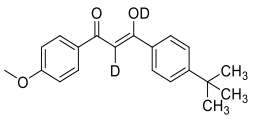
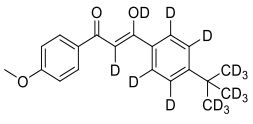
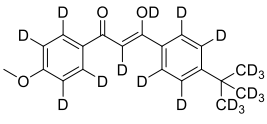
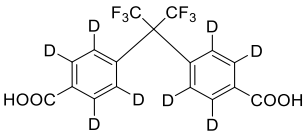
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-024	Indole-3-acetic acid-d_6	
NDF-B-025	8-Hydroxyquinoline-d_6	
NDF-B-026	4,4'-Biphenyldicarboxylic acid-d_8	
NDF-B-027	5,12-Diphenyltetracene-d_{18}	
NDF-B-028	4,4'-Trimethylenedipyridine-d_{14}	
NDF-B-029	2,6-Napthanedicarboxylic acid-d_6	
NDF-B-030	Carbazole-d_8 https://doi.org/10.1016/j.tetlet.2011.12.032	
NDF-B-031	Phenanthroline-d_8	
NDF-B-032	Phthalonitrile-d_4	

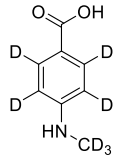
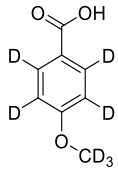
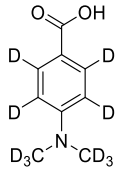
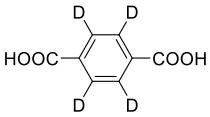
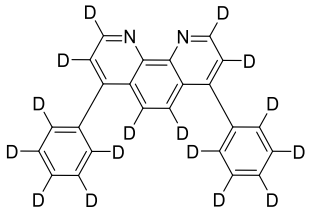
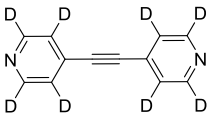
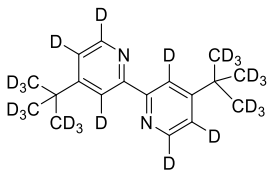
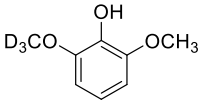
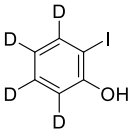
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-033	4,4′-Bis(*N*-carbazolyl)-1,1′-biphenyl-d_{16} CBP-d_{16}	
NDF-B-034	4,4′-Bis(*N*-carbazolyl)-1,1′-biphenyl-d_{24} CBP-d_{24} https://doi.org/10.1021/acsami.7b15542 http://dx.doi.org/10.1002/adfm.201002365 http://dx.doi.org/10.1021/acsami.1c05940	
NDF-B-035	Dimethylaniline-d_6	
NDF-B-036	3,5-di-*tert*-Butylcatechol-d_{20}	
NDF-B-037	2,2'-Bipyridine-d_8 https://doi.org/10.1021/acs.inorgchem.2c03457	
NDF-B-038	3-Hydroxybenzoic acid-d_4	
NDF-B-039	8-Quinoline sulfinic acid-d_6	
NDF-B-040	2-Chloro-3-methylpyridine-d_6 http://dx.doi.org/10.1088/1361-648X/aabdf9	
NDF-B-041	4-Hydroxybenzoic acid-d_4 https://doi.org/10.1017/S0885715617000720	

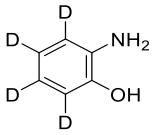
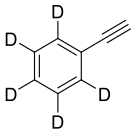
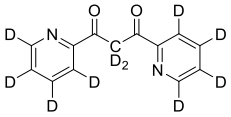
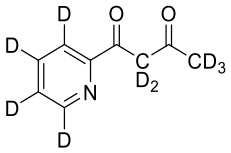
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-042	Phenylglycine-d_6	
NDF-B-043	4-Methyl-N-(9H-xanthen-9yl) benzenesulfonamide-d_8	
NDF-B-044	4-Methylbenzenethiol-d_7	
NDF-B-045	MEH PPV monomer-d_{26} http://dx.doi.org/10.1039/C9TC05322K http://dx.doi.org/10.1002/anie.202002477 http://dx.doi.org/10.1103/PhysRevApplied.15.064001 http://dx.doi.org/10.1038/s41467-020-20148-6 https://doi.org/10.1103/PhysRevB.108.035201	
NDF-B-046	4-Cyanopyridine-d_4	
NDF-B-047	Avobenzone-d_2 http://dx.doi.org/10.1039/D0PP00265H	 keto/enol
NDF-B-048	Avobenzone-d_{15}	 keto/enol
NDF-B-049	Avobenzone-d_{19}	 keto/enol
NDF-B-050	Hexafluoroisopropylidenebisbenzoic-d_8 acid	

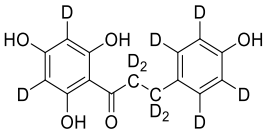
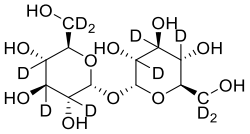
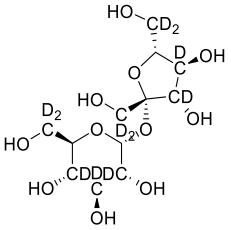
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-051	4-((Methyl-d_3)amino)benzoic-d_4 acid	
NDF-B-052	4-(Methoxy-d_3)benzoic-d_4 acid http://dx.doi.org/10.1002/chem.202201366	
NDF-B-053	4-(bis(Methyl-d_3)amino)benzoic-d_4 acid	
NDF-B-054	Terephthalic acid-d_4	
NDF-B-055	Bathophenanthroline-d_{16}	
NDF-B-056	Bis(4-pyridyl)acetylene-d_8 BPAC-d_8	
NDF-B-057	4,4'-Di-tert-butyl-2,2'-bipyridine-d_{24} 4,4'-Di-tert-butyl-2,2'-dipyridyl-d_{24}	
NDF-B-058	Syringol-d_3	
NDF-B-059	2-Iodophenol-d_4	

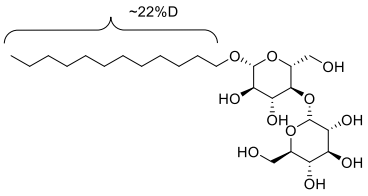
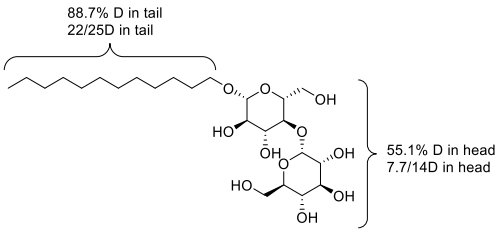
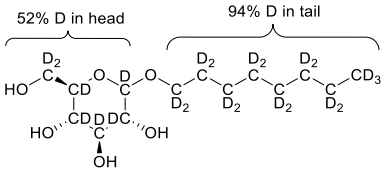
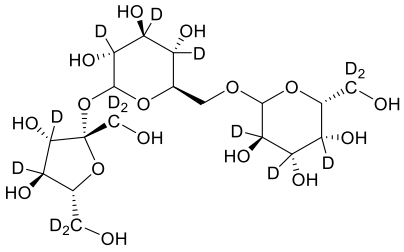
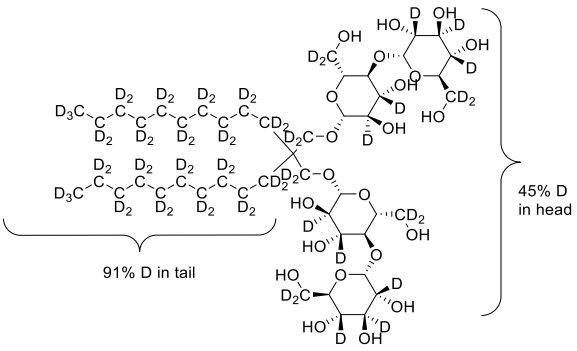
NDF-B. Aromatic compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-B-060	2-Aminophenol-d_4	
NDF-B-061	Phenyl-d_5-acetylene	
NDF-B-062	1,3-Di(pyridin-2-yl)propane-1,3-dione-d_{10}	
NDF-B-063	1-(2-Pyridinyl)-1,3-butanedione-d_9	

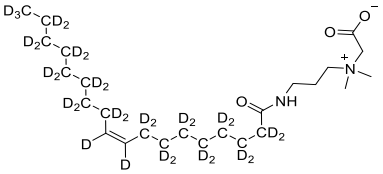
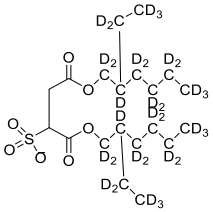
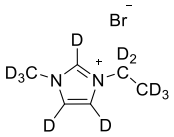
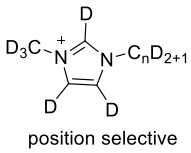
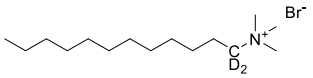
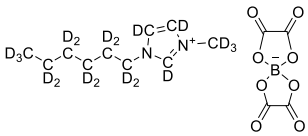
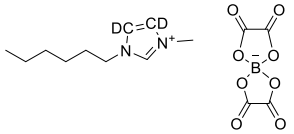
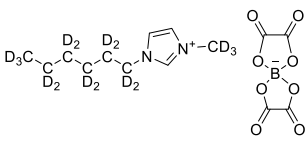
NDF-C. Sugars and related compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-C-001	Phloretin-d_{10}	
NDF-C-002	Trehalose-d_{10} http://dx.doi.org/10.1021/acs.langmuir.5b02127 https://doi.org/10.1098/rsif.2014.0069	
NDF-C-003	Sucrose-d_{11} http://dx.doi.org/10.1021/acs.langmuir.5b02127	

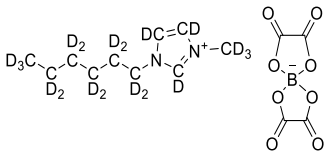
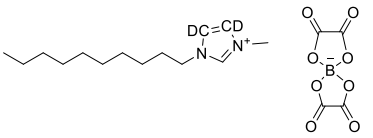
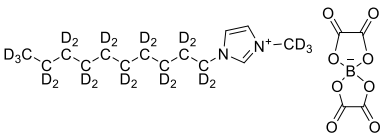
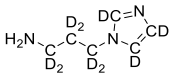
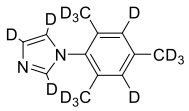
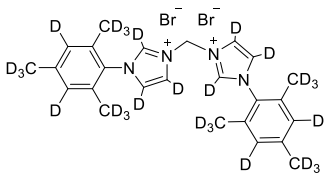
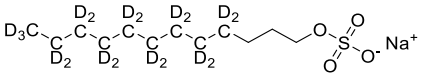
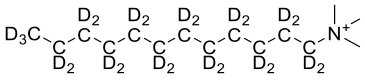
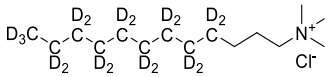
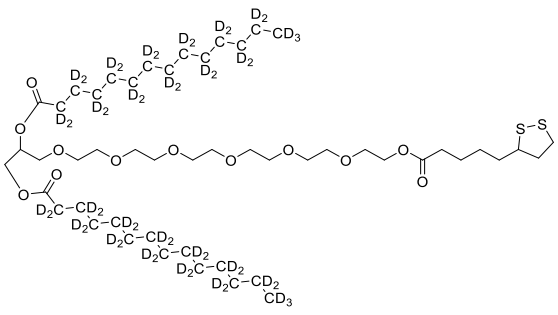
NDF-C. Sugars and related compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-C-004	*n*-Dodecyl-β-D-maltopyranoside DDM: deuterated tail 22% D	
NDF-C-005	*n*-Dodecyl-β-D-maltopyranoside DDM: head 55%D, tail 89%D http://dx.doi.org/doi:10.1107/S2052252518012186 http://dx.doi.org/10.1111/febs.14345 http://dx.doi.org/10.7554/eLife.71887	
NDF-C-006	Octyl β-D-glucopyranoside n-octyl glucoside OG: head 52%D, tail 94% D http://dx.doi.org/10.1111/febs.14345 https://doi.org/10.1107/S2052252520013974 http://dx.doi.org/10.1007/s00018-022-04428-6	
NDF-C-007	Raffinose-d_{14}	
NDF-C-008	Lauryl maltose neopentyl glycol LMNG: head 45%D, tail 91%D	

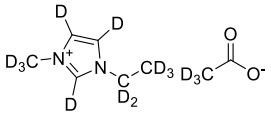
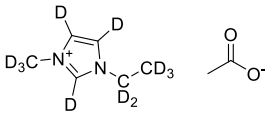
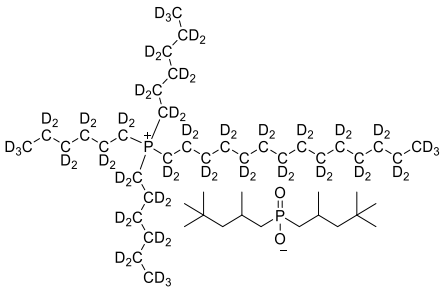
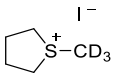
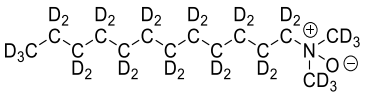
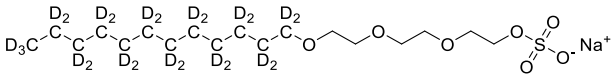
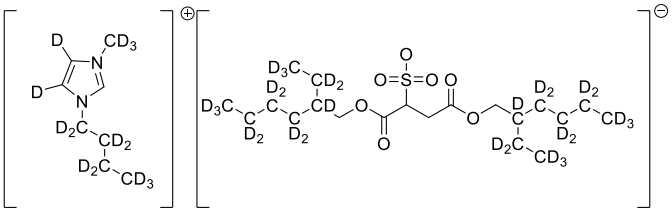
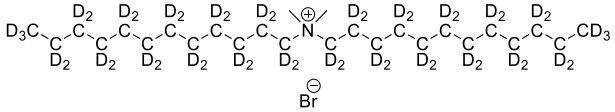
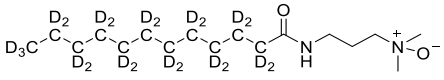
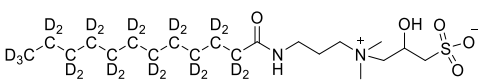
NDF-D. Ionic compounds/surfactants

Product code	Compound name/s and publication links	Chemical structure
NDF-D-001	Oleic betaine-d_{33} OAPB-d_{33} https://doi.org/10.1016/j.jcis.2018.09.046	
NDF-D-002	Sodium bis(2-ethylhexyl-d_{17}) sulfosuccinate	
NDF-D-003	1-Ethyl-3-methylimidazolium bromide-d_{11} EMIM Br-d_{11}	
NDF-D-004	$[C_n mim]^+$ (n = 2, 4, 8, 10) 1-Alkyl-3-methylimidazolium chloride (alkyl = ethyl, butyl, octyl, decyl) https://doi.org/10.1039/C9CP02479D http://dx.doi.org/10.1016/j.physb.2018.01.063 http://dx.doi.org/10.7566/JPSCP.33.011150 http://dx.doi.org/10.1149/2754-2734/ac6963	 position selective
NDF-D-005	Dodecyltrimethylammonium bromide-d_2 DTAB-d_2 http://dx.doi.org/10.1088/1361-648X/ab49a8 https://doi.org/10.1016/j.jcis.2021.09.019	
NDF-D-006	1-Hexyl-3-methyl-imidazolium-d_{19} bis(oxalato)borate	
NDF-D-007	1-Hexyl-3-methyl-4,5-d_2-imidazolium bis(oxalate)borate	
NDF-D-008	1-Hexyl-d_{13}-3-methyl-d_3-imidazolium bis(oxalato)borate	

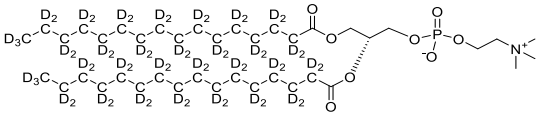
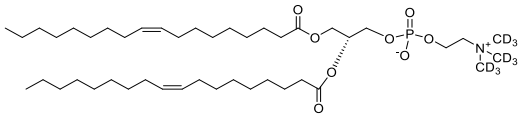
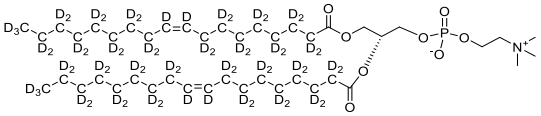
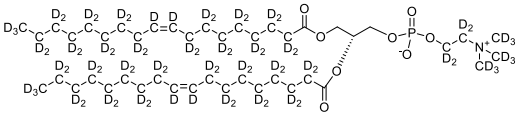
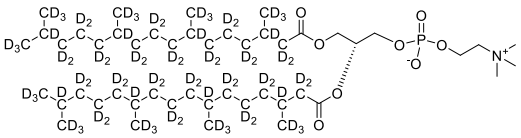
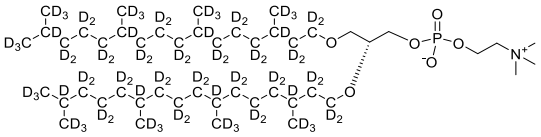
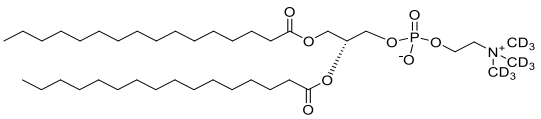
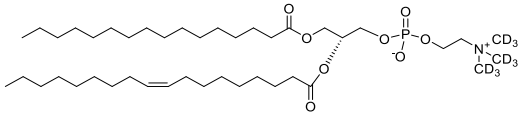
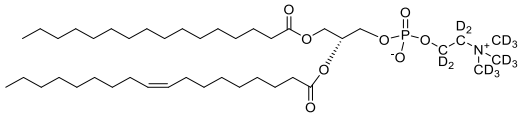
NDF-D. Ionic compounds/surfactants

Product code	Compound name/s and publication links	Chemical structure
NDF-D-009	1-Hexyl-3-methyl-imidazolium-d_{27} bis(oxalato)borate	
NDF-D-010	1-Decyl-3-methyl-4,5-d_2-imidazolium bis(oxalato)borate	
NDF-D-011	1-Decyl-d_{21}-3-methyl-d_3-imidazolium bis(oxalato)borate	
NDF-D-012	1-(3-Aminopropyl)imidazole-d_9	
NDF-D-013	*N*-2,4,6-Trimethylphenyl imidazole-d_{14} (MesIm) salt (d-(MesIm)$_2$CD$_2$Br$_2$ https://doi.org/10.1039/C4FD00182F	 
NDF-D-014	Sodium lauryl sulfate-d_{19} (selective)	
NDF-D-015	Dodecyltrimethylammonium chloride-d_{25}	
NDF-D-016	Dodecyltrimethylammonium chloride-d_{19} (selective)	
NDF-D-017	LA-DL14-d_{54} (WC 14 analogue)	

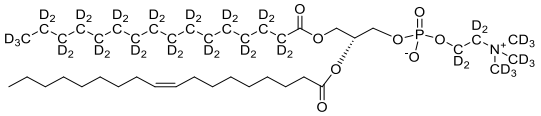
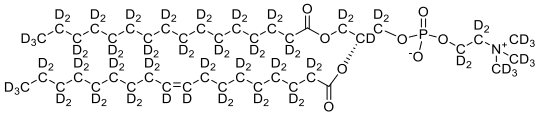
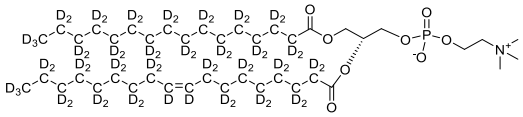
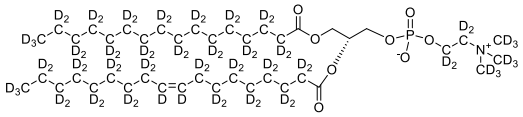
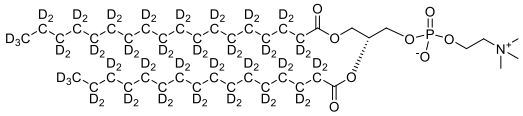
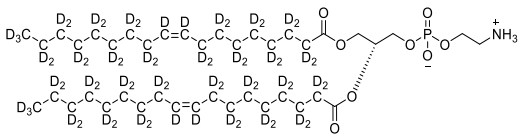
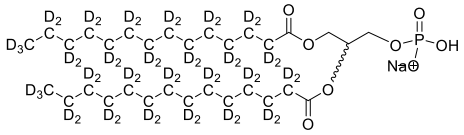
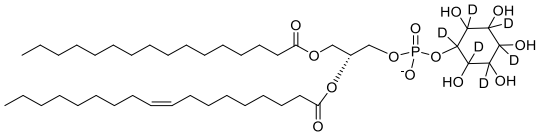
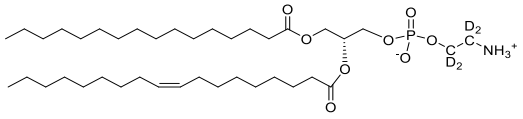
NDF-D. Ionic compounds/surfactants

Product code	Compound name/s and publication links	Chemical structure
NDF-D-018	1-Ethyl-3-methyl-imidazolium acetate-d_{14} EMIMAc-d_{14} https://doi.org/10.1021/acs.macromol.8b01425	
NDF-D-019	1-Ethyl-3-methyl-imidazolium acetate-d_{11} EMIMAc-d_{11}	
NDF-D-020	d-Trihexyltetradecyl phosphonium bis(2,4,4-trimethylpentyl)phosphinate-d_{68} https://doi.org/10.1021/acs.jpcc.8b05952	
NDF-D-021	S-Methyl-d_3-tetrahydrothiophenium iodide	
NDF-D-022	*N*,*N*-Dimethyldodecan-1-amine *N*-oxide-d_{31} Lauryldimethylamine oxide-d_{31} LDAO-d_{31}	
NDF-D-023	Sodium 2-[2-[2-(dodecyloxy)ethoxy]ethoxy]ethyl sulfate-d_{25}	
NDF-D-024	[BMIM-d_{14}][AOT-d_{30}] 1-butyl-3-methylimidazolium-d_{14} 1,4-bis-2-ethylhexylsulfosuccinate-d_{30}	
NDF-D-025	*N*-(Dodecyl-d_{25})-*N*,*N*-dimethyldodecan-1-aminium-d_{25} bromide DDAB-d_{50}	
NDF-D-026	Lauramidopropyldimethylamine oxide-d_{23}	
NDF-D-027	Lauramidopropyl hydroxysultaine-d_{23}	

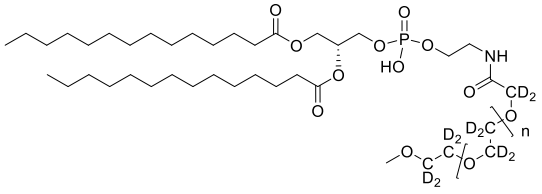
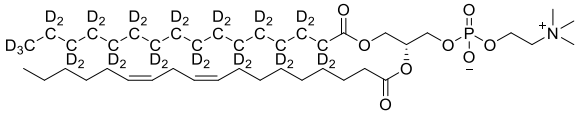
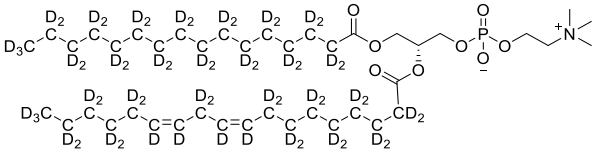
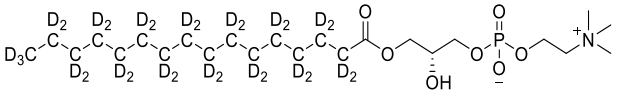
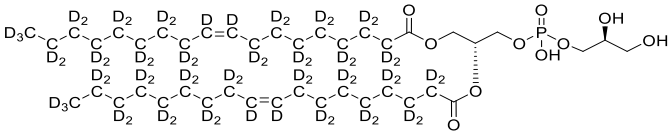
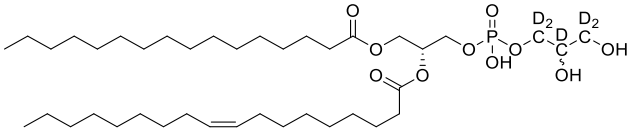
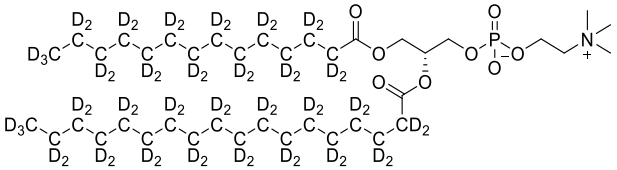
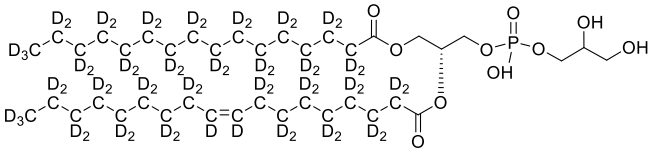
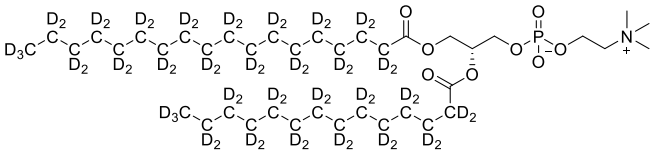
NDF-E. Phospholipids

Product code	Compound name/s (Publication links included if available)	Chemical structure
NDF-E-001	1,2-Dipalmitoyl-*sn*-glycero-3-phosphocholine-d_{62} DPPC-d_{62}	
NDF-E-002	1,2-Dioleoyl-*sn*-glycero-3-phosphocholine-d_9 DOPC-d_9 https://doi.org/10.1016/j.colsurfb.2019.01.040	
NDF-E-003	1,2-Dioleoyl-*sn*-glycero-3-phosphocholine-d_{66} DOPC-d_{66} https://doi.org/10.1016/j.colsurfb.2019.01.040	
NDF-E-004	1,2-Dioleoyl-*sn*-glycero-3-phosphocholine-d_{79} DOPC-d_{79}	
NDF-E-005	DphyPC-d_{78} (tail-deuterated) 1,2-di(3RS,7R,11R-phytanoyl)-*sn*-glycero-3-phosphocholine https://doi.org/10.1016/j.chemphyslip.2014.04.004	
NDF-E-006	DPEPC-d_{82} (tail-deuterated) 1,2-di(3*RS*,7*R*,11*R*-phytanyl)-*sn*-glycero-3-phosphocholine https://doi.org/10.1016/j.chemphyslip.2014.04.004	
NDF-E-007	1,2-Palmitoyl-*sn*-glycero-3-phosphocholine-d_9 DPPC-d_9 https://doi.org/10.1016/j.colsurfb.2019.01.040	
NDF-E-008	1-Palmitoyl-2-oleoyl-glycero-3-phosphocholine-d_9 POPC-d_9	
NDF-E-009	1-Palmitoyl-2-oleoyl-glycero-3-phosphocholine-d_{13} POPC-d_{13} http://dx.doi.org/10.1021/acs.langmuir.0c02212	

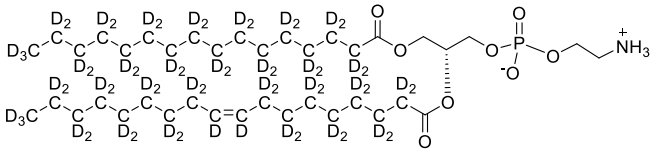
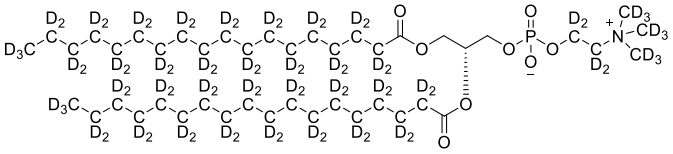
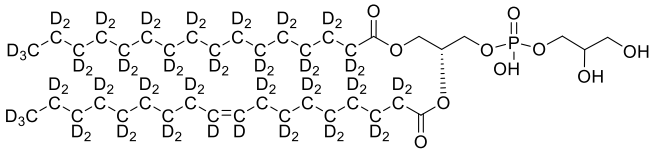
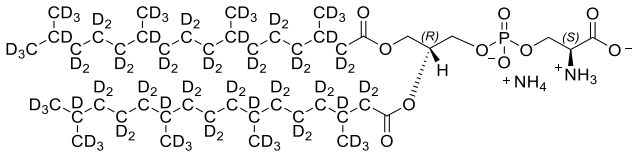
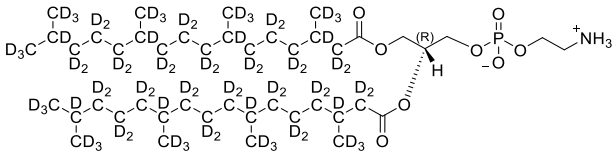
NDF-E. Phospholipids

Product code	Compound name/s (Publication links included if available)	Chemical structure
NDF-E-010	1-Palmitoyl-2-oleoyl-glycero-3-phosphocholine-d_{44} POPC-d_{44}	
NDF-E-011	1-Palmitoyl-2-oleoyl-glycero-3-phosphocholine-d_{82} POPC-d_{82} http://dx.doi.org/10.1002/cplu.201500452 https://doi.org/10.3390/nano10122439	
NDF-E-012	1-Palmitoyl-2-oleoyl-glycero-3-phosphocholine-d_{64} POPC-d_{64} https://doi.org/10.1016/j.bpj.2017.06.027 http://dx.doi.org/10.3389/fchem.2021.630152 https://doi.org/10.1016/j.bbalip.2020.158769 https://doi.org/10.1021/acsami.2c18956 https://doi.org/10.1016/j.jcis.2023.04.137	
NDF-E-013	1-Palmitoyl-2-oleoyl-glycero-3-phosphocholine-d_{77} POPC-d_{77} https://doi.org/10.1016/j.bbalip.2020.158769 http://dx.doi.org/10.7554/eLife.71887	
NDF-E-014	Hydro soy phosphocholine-d_{70} HSPC-d_{70} https://doi.org/10.1016/j.colsurfb.2019.110362 https://doi.org/10.1002/macp.202300315	
NDF-E-015	1,2-Dioleoyl phosphatidylethanolamine-d_{66} DOPE-d_{66}	
NDF-E-016	1,2-Dilauroyl-*sn*-glycero-3-phosphate-d_{46} DLPA-d_{46}	
NDF-E-017	1-Palmitoyl-2-oleoyl-*sn*-glycero-3-phosphoinositol-d_6	
NDF-E-018	1-Palmitoyl-2-oleoyl-*sn*-glycero-3-phosphoethanolamine-d_4 POPE-d_4	

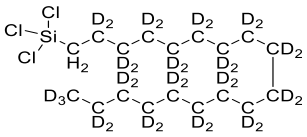
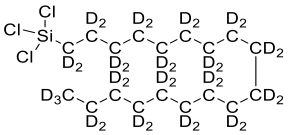
NDF-E. Phospholipids

Product code	Compound name/s (Publication links included if available)	Chemical structure
NDF-E-019	1,2-Dimyristoyl-glycero-3-phosphoethanolamine-*N*-[(polyethylene glycol)-methoxy]	
NDF-E-020	1-Palmitoyl-d_{31}-2-linoleoyl-*sn*-glycero-3-phosphocholine PLPC-d_{31}	
NDF-E-021	1-Palmitoyl-2-linoleoyl-*sn*-glycero-3-phosphocholine-d_{62} PLPC-d_{62} https://doi.org/10.1002/adsc.202200616 https://doi.org/10.1016/j.jcis.2023.04.137	
NDF-E-022	1-Palmitoyl-*sn*-glycero-3-phosphocholine-d_{31}	
NDF-E-023	1,2-Dioleoyl-d_{66}-*sn*-glycero-3-phospho-(1'-sn-glycerol) DOPG-d_{66}	
NDF-E-024	1-Palmitoyl-2-oleoyl-*sn*-glycero-3-phospho-(1'-rac-glycerol)-d_5 POPG-d_5	
NDF-E-025	1-Myristoyl-d_{27}-2-stearoyl-d_{35}-*sn*-glycero-3-phosphocholine MSPC-d_{62}	
NDF-E-026	1-Palmitoyl-d_{31}-2-oleoyl-d_{33}-*sn*-glycero-3-phospho-(1'-rac-glycerol) POPG-d_{64}	
NDF-E-027	1-Stearoyl-d_{35}-2-myristoyl-d_{27}-*sn*-glycero-3-phosphocholine SMPC-d_{62}	

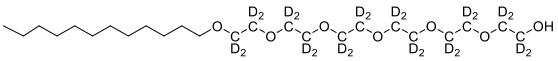
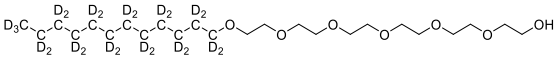
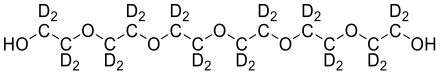
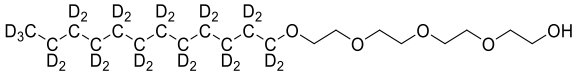
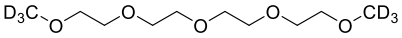
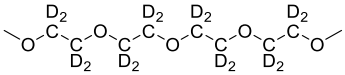
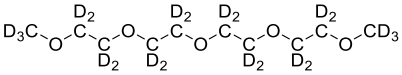
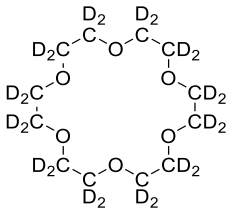
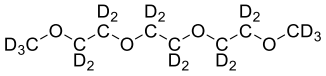
NDF-E. Phospholipids

Product code	Compound name/s (Publication links included if available)	Chemical structure
NDF-E-028	1-Palmitoyl-d_{31}-2-oleoyl-d_{33}-*sn*-glycero-3-phosphoethanolamine POPE-d_{64} 16:0-18:1 PE-d_{64}	
NDF-E-029	1,2-distearoyl-d_{70}-*sn*-glycero-3-phosphocholine-d_{13} DSPC-d_{83} 18:0 PC-d_{83}	
NDF-E-030	1-palmitoyl-d_{31}-2-oleoyl-d_{33}-*sn*-glycero-3-phospho-(1'-rac-glycerol) POPG-d_{64} 16:0-18:1 PG-d_{64}	
NDF-E-031	1,2-Diphytanoyl-d_{78}-*sn*-glycero-3-phospho-L-serine DPhyPS-d_{78}	
NDF-E-032	1,2-Diphytanoyl-d_{78}-*sn*-glycero-3-phosphoethanolamine DPhyPE-d_{78}	

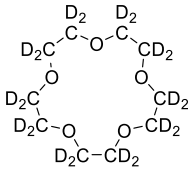
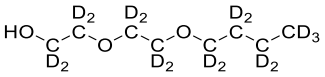
NDF-F. Silicon containing compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-F-001	Octadecyltrichlorosilane-d_{35} OTS-d_{35} http://dx.doi.org/10.1039/C5CP02702K	
NDF-F-002	Octadecyltrichlorosilane-d_{37} OTS-d_{37}	

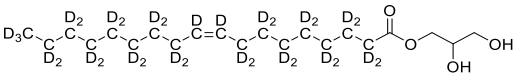
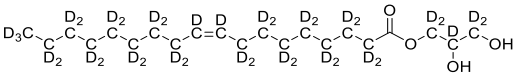
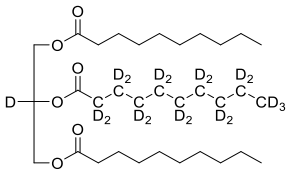
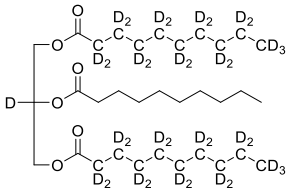
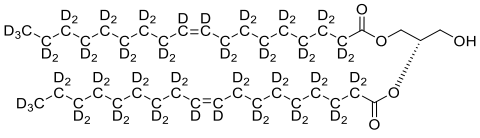
NDF-G. Glycols and related compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-G-001	Hexaethylene glycol-d_{24}-monododecyl ether	
NDF-G-002	Hexaethylene glycol monododecyl ether-d_{25}	
NDF-G-003	Hexaethylene glycol-d_{24}	
NDF-G-004	Tetraethylene glycol monododecyl ether-d_{25}	
NDF-G-005	Tetraethylene glycol-h_{16}-dimethyl ether-d_6	
NDF-G-006	Tetraethylene glycol-d_{16}-dimethyl ether-h_6 Tetraglyme-d_{16} http://dx.doi.org/10.1039/C6CP00176A	
NDF-G-007	Tetraethylene glycol-h_6-dimethylether-d_{22} Tetraglyme-d_{22} http://dx.doi.org/10.1039/C6CP00176A	
NDF-G-008	18-Crown-6-d_{24} http://dx.doi.org/doi.org/10.1071/CH21306	
NDF-G-009	Triglyme-d_{18}	

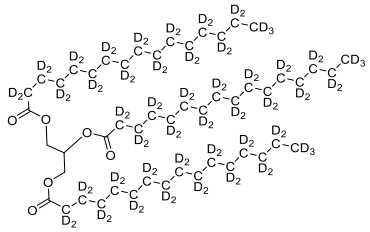
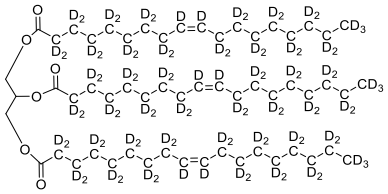
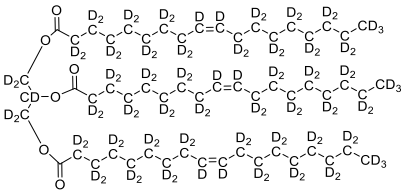
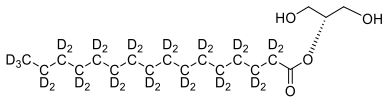
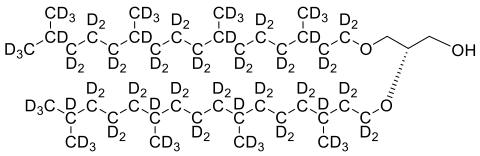
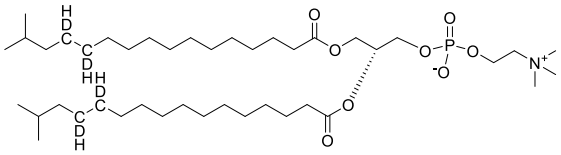
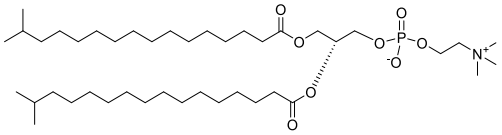
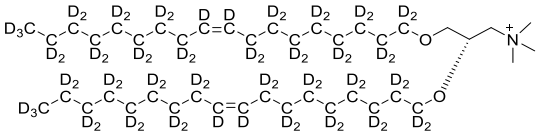
NDF-G. Glycols and related compounds

Product code	Compound name/s and publication links	Chemical structure
NDF-G-010	15-Crown-5-d_{20}	
NDF-G-011	Diethyleneglycol monobutyl ether-d_{17}	

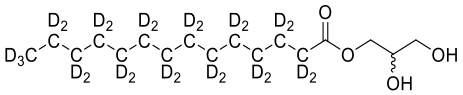
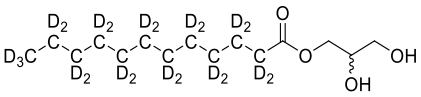
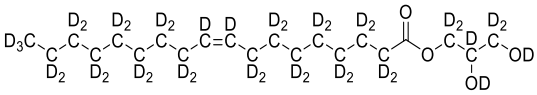
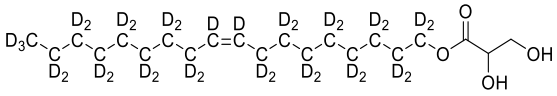
NDF-H. Glycerides

Product code	Compound name/s and publication links	Chemical structure
NDF-H-001	1-Monoolein-d_{33} GMO-d_{33}	
NDF-H-002	1-Monoolein-d_{38} GMO-d_{38} https://doi.org/10.1021/acs.langmuir.9b00647 http://dx.doi.org/10.3389/fchem.2020.619470 http://dx.doi.org/doi:10.1107/S2052252520013974 https://doi.org/10.1107/S2052252520013974	
NDF-H-003	Tricaprin-d_{19} https://doi.org/10.1016/j.chemphyslip.2015.06.007	
NDF-H-004	Tricaprin-d_{38} https://doi.org/10.1016/j.chemphyslip.2015.06.007	
NDF-H-005	1,2-di-oleoyl-d_{66}-glycerol	

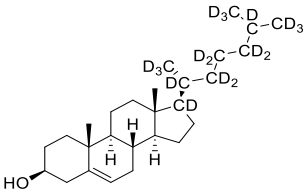
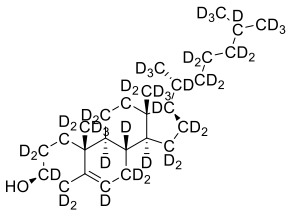
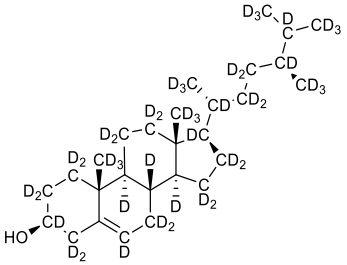
NDF-H. Glycerides

Product code	Compound name/s and publication links	Chemical structure
NDF-H-006	Tripalmitin-d_{93} https://doi.org/10.1016/j.foostr.2019.100124 http://dx.doi.org/10.1016/j.chemphyslip.2019.02.011	
NDF-H-007	Triolein-d_{99}	
NDF-H-008	Triolein-d_{104} https://doi.org/10.1021/acsami.3c11767	
NDF-H-009	2-Monopalmitin-d_{31}	
NDF-H-010	GDPE-d_{82} 1,2-di-phytanyl-sn-glycerol-d_{82} Diphytanyl-diglyceride ether lipid	
NDF-H-011	d_2-Isoheptadodecanoic phosphatidyl choline	
NDF-H-012	h_2-Isoheptadodecanoic phosphatidyl choline	
NDF-H-013	1,2-di-O-oleyl-3-trimethylammonium propane (chloride salt) DOTMA-d_{70}	

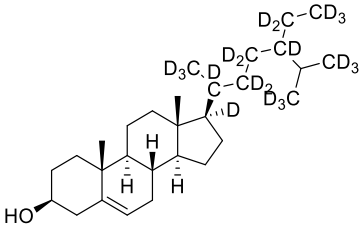
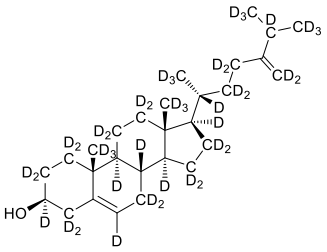
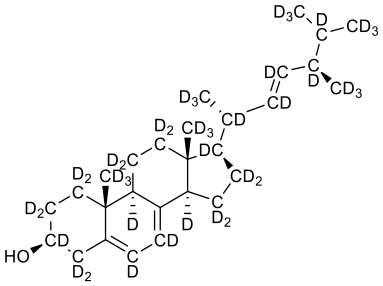
NDF-H. Glycerides

Product code	Compound name/s and publication links	Chemical structure
NDF-H-014	Monomyristin-d_{27}	
NDF-H-015	Monolaurin-d_{23}	
NDF-H-016	Monoolein-d_{40} https://doi.org/10.1021/acsnano.3c01095	
NDF-H-017	Oleyl glycerate-d_{35}	

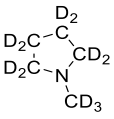
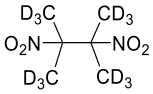
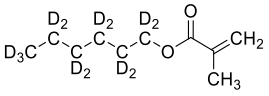
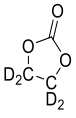
NDF-I. Sterols

Product code	Compound name/s and publication links	Chemical structure
NDF-I-001	Cholesterol-d_{18}	
NDF-I-002	Cholesterol-d_{45} http://dx.doi.org/10.21203/rs.3.rs-531349/v1 http://dx.doi.org/10.1021/acsnano.0c10064 http://dx.doi.org/10.1021/acsinfecdis.2c00215 https://doi.org/10.1016/j.jlr.2022.100290 https://doi.org/10.1016/j.jcis.2023.01.043 https://doi.org/10.1016/j.jcis.2023.04.137 https://doi.org/10.1039/D3OB00754E https://doi.org/10.1126/science.adf0966	
NDF-I-003	22,23-Dihydrobrassicasterol-d_{47} https://doi.org/10.1039/D3OB00754E	

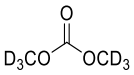
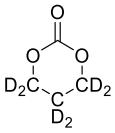
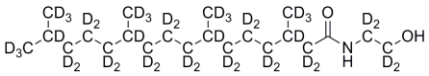
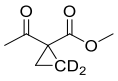
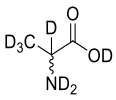
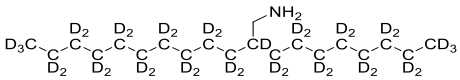
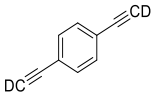
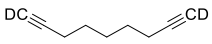
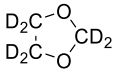
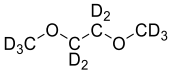
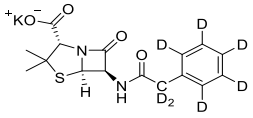
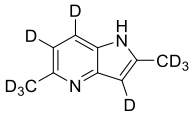
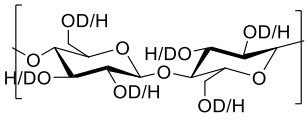
NDF-I. Sterols

Product code	Compound name/s and publication links	Chemical structure
NDF-I-004	Sitosterol-d_{22}	
NDF-I-005	24-Methylenecholesterol-d_{45}	
NDF-I-006	Ergosterol-d_{43}	

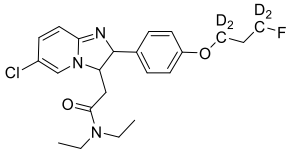
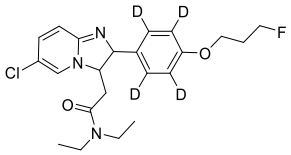
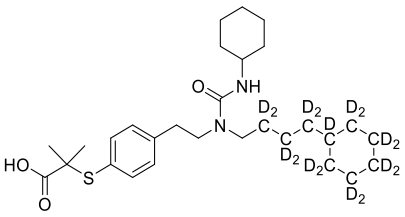
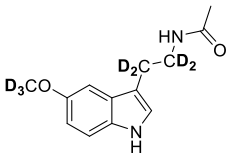
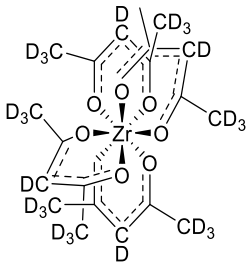
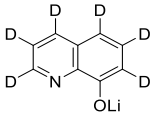
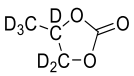
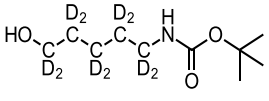
NDF-J. Miscellaneous

Product code	Compound name/s and publication links	Chemical structure
NDF-J-001	*N*-methyl Pyrrolidine-d_{11}	
NDF-J-002	2,3-Dimethyl-2,3-dinitrobutane-d_{12} DMNB-d_{12} http://dx.doi.org/10.1038/ncomms9240	
NDF-J-003	Monomer d-hexyl-h-methacrylate-d_{13}	
NDF-J-004	Ethylene carbonate-d_4 EC-d_4 https://doi.org/10.1002/jccs.201900448	

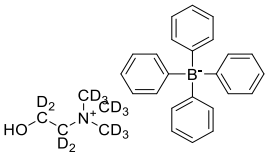
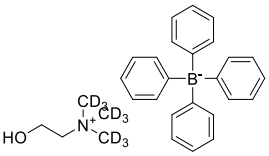
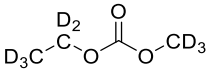
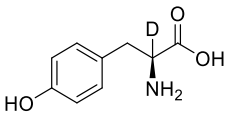
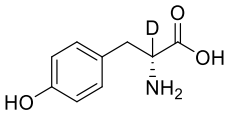
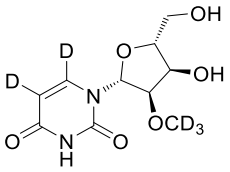
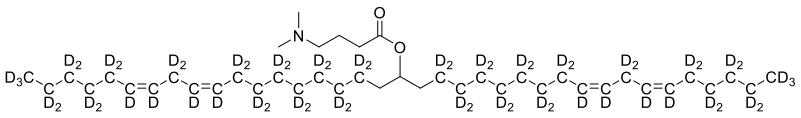
NDF-J. Miscellaneous

Product code	Compound name/s and publication links	Chemical structure
NDF-J-005	Dimethyl carbonate-d_6	
NDF-J-006	Trimethylene carbonate-d_6	
NDF-J-007	Phytanoyl monoethylamine-d_{43} http://dx.doi.org/10.1021/acs.jpclett.6b01173	
NDF-J-008	Methyl-1-acetylcyclopropane-d_2 carboxylate	
NDF-J-009	DL-Alanine-d_7	
NDF-J-010	2-Octyl dodecylamine-d_{39}	
NDF-J-011	1,4-Diethynlbenzene-d_2	
NDF-J-012	1,8-Nonadiyne-d_2	
NDF-J-013	1,3-Dioxolone-d_6	
NDF-J-014	1,2-Dimethoxy ethane-d_{10}	
NDF-J-015	Benzyl penicillin-d_7	
NDF-J-016	2,5-Dimethyl-4-azaindole-d_9	
NDF-J-017	Cellulose nanocrystal-OD	

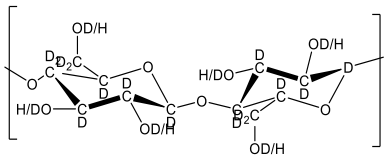
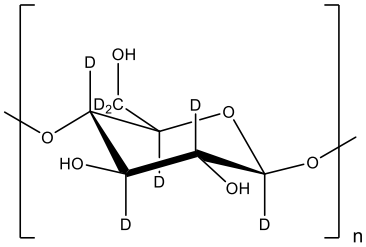
NDF-J. Miscellaneous

Product code	Compound name/s and publication links	Chemical structure
NDF-J-018	Acetonitrile-d_3	
NDF-J-019	PBR111-d_4(propyl) https://doi.org/10.1016/j.aca.2019.02.025	
NDF-J-020	PBR111-d_4(ring) https://doi.org/10.1016/j.aca.2019.02.025	
NDF-J-021	2-(4-(2-(1-Cyclohexanebutyl-d_{17})-3-cyclohexylureido)ethyl)-phenyl-thio)-2-methyl-propionic acid [D17]GW7647	
NDF-J-022	Melatonin-d_7	
NDF-J-023	Zirconium Acetylacetonate-d_{28}	
NDF-J-024	8-Hydroxyquinolinatolithium-d_6	
NDF-J-025	1,2-Propylene carbonate-d_6	
NDF-J-026	5-(Boc-amino)-1-pentanol-d_{10}	

NDF-J. Miscellaneous

Product code	Compound name/s and publication links	Chemical structure
NDF-J-027	Choline-d_{13} tetraphenylborate	
NDF-J-028	Choline-d_9 tetraphenylborate	
NDF-J-029	Ethylmethyl carbonate-d_8	
NDF-J-030	L-Tyrosine-d_1	
NDF-J-031	D-Tyrosine-d_1	
NDF-J-032	2'-O-methyluridine-d_5	
NDF-J-033	4-(dimethylamino)-butanoic acid, (10Z,13Z)-1-(9Z,12Z)-9,12-octadecadien-1-yl-10,13-nonadecadien-1-yl ester-d_{62} D-Lin-MC3-DMA-d_{62}	

NDF-K. Biopolymers

Product code	Compound name/s and publication links	Chemical structure
NDF-K-002	Cellulose http://dx.doi.org/10.1021/acs.macromol.8b01425 http://dx.doi.org/10.1021/acs.biomac.7b00593 http://dx.doi.org/10.1007/s10570-016-1108-6 http://dx.doi.org/10.1038/srep36119 http://dx.doi.org/10.1021/acs.macromol.1c00833	
NDF-K-003	Deuterated starch	

NDF-L. Proteins

Product Code	Category	Publication links
NDF-L-001	**Partially deuterated protein*** Up to 88 (± 2) % D incorporation (based on non-exchangeable hydrogens).	http://dx.doi.org/10.1007/978-1-4939-8760-3_7 http://dx.doi.org/10.1039/C8TB02465K http://dx.doi.org/10.1074/jbc.RA118.001860 http://dx.doi.org/10.1016/j.foodhyd.2017.11.045 http://dx.doi.org/10.1021/acs.langmuir.7b02872 http://dx.doi.org/10.1098/rsif.2015.0164 http://dx.doi.org/10.1021/bm400356m http://dx.doi.org/10.1098/rsif.2012.0987 https://doi.org/10.1016/j.bpj.2012.06.042 http://dx.doi.org/10.1073/pnas.1116975109 http://dx.doi.org/10.1039/C2SM25082A https://doi.org/10.1016/j.fbp.2011.12.004 https://doi.org/10.1007/s00249-022-01620-1 http://doi.org.10.1126/sciadv.abq2202 https://doi.org/10.1038/s42003-023-04502-0 https://doi.org/10.1021/acs.langmuir.2c03129
NDF-L-002	**Perdeuterated protein*** ≥ 99 % D incorporation (based on non-exchangeable hydrogens).	http://dx.doi.org/10.7566/JPSCP.25.011003 https://doi.org/10.1016/j.ab.2015.06.008 http://dx.doi.org/10.1016/j.jmb.2020.08.011
NDF-L-003	**Triple-labelled (^{2}H/^{13}C/^{15}N) protein*** Partial ^{2}H and uniform ^{13}C/^{15}N labelling.	http://dx.doi.org/10.1038/s42003-018-0063-1 http://dx.doi.org/10.1039/C5CC07345F http://dx.doi.org/10.1021/ja504603g http://dx.doi.org/10.1002/anie.201205625 http://dx.doi.org/10.1007/s10858-020-00339-5 http://dx.doi.org/10.1038/s41418-022-00965-6
NDF-L-004	**Double-labelled (^{2}H/^{15}N) protein*** Partial ^{2}H and uniform ^{15}N labelling.	http://dx.doi.org/10.1371/journal.pone.0200387 http://dx.doi.org/10.1016/j.pep.2022.106121
NDF-L-005	**Double-labelled (^{13}C/^{15}N) protein*** Uniform ^{13}C/^{15}N labelling.	https://doi.org/10.1016/j.jbc.2023.104568
NDF-L-006	**Selectively-labelled protein*** Various labelling schemes possible.	Additional information available upon request

*Biomass or purified protein available