



Leaders in Pharmaceutical Products


Cleanchem
Laboratories
Driving Sustainability

Product List : 2016-17

- Impurity reference standards
- Working standards
- Building Blocks & Intermediates
- Speciality chemicals
- Custom synthesis
- Catalysts



*"taking on the
challenges
of today, to build a new
future
for tomorrow"*



∴ Address ∴

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ABOUT US

Cleanchem laboratories LLP is an independent reliable R&D based custom manufacturing company (CRAMS) delivering its numerous leading products to pharmaceutical, chemical, clinical research, speciality chemical, academic and government research institutions and healthcare industry. Cleanchem is fully research driven organization dealing with custom synthesis of impurity reference standards, NCE Building blocks, speciality chemicals, intermediates, complex organic chemicals for biomedical and pharmaceutical research. We also provide supplementary products such as secondary reference standards which are compared to USP, IP, EP or BP and accompanied with an advanced certificate of analysis (CoA).

Our motto is " *To develop all the chemical products and processes environmental benign, high quality and cost effective* ". Our manufacturing processes are majorly based on catalysis, which are 'CLEAN' and 'GREEN' taking an account on environment concern and global warming. Our strengthen workforce provide rapid response in both the quotes and the delivery of the product to the customers. This facilitates harmonised feedback from customers. We also respond to the concerns and needs of customers very promptly, efficiently and maintaining the confidentiality of their personal information.



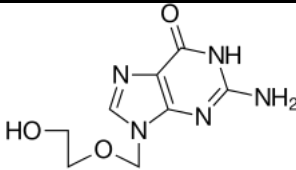
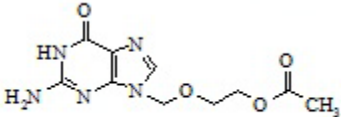
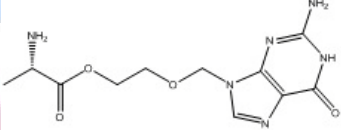
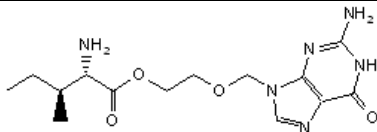
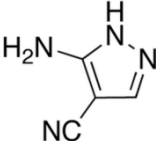
RESEARCH & TECHNOLOGY

Cleanchem Labs has its state of art R&D facility located at Rabale, Navi Mumbai. Our R&D capabilities are the backbone of the company's research program and support it by developing non-infringing and non-conventional synthetic routes. Research facility is based on principles of *Green chemistry & Engineering* which leads into development innovative, safe, cost effective and eco-friendly chemical manufacturing processes with minimal or zero waste to deliver high quality materials. We have a pool of highly qualified R&D scientists including Ph.D. and Master degree holders with a varied knowledge base and global exposure covering all areas of pharmaceutical, chemical and allied research. The ability to develop difficult-to-make, complex organic molecules by using the novel non-conventional technologies is the key differentiating factor of our research. Our well-furnished and equipped research lab facilitated with Rotavapour, Fumehood, High temperature and high pressure reaction autoclaves, Grignard reactions, Catalytic fixed bed and vapour phase reactions for continuous setup.

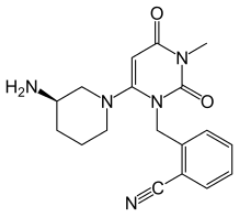
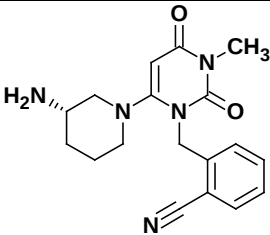
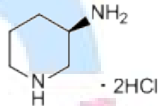
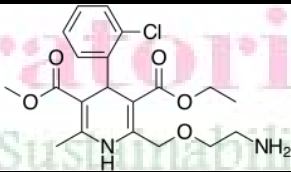
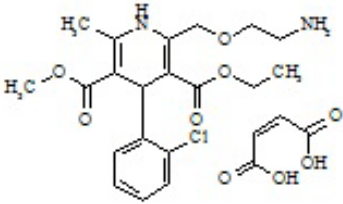
Research & Technology department is strongly supported by fully equipped analytical laboratory. Our analytical facility supported by instruments like HPLC, GC, NMR, Flash chromatography system, LCMS, GCMS, Karl Fisher apparatus, MP and BP analysis, pH meter, etc.



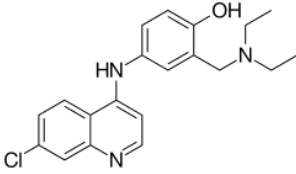
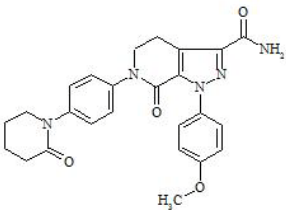
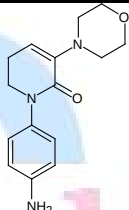
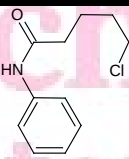
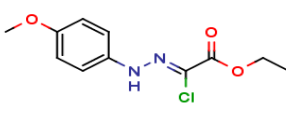
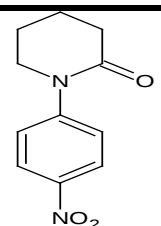
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

Code	Material	Structure	Properties	Remark
	Acitretin			
CL0001	Alkylated hydroxyl sulphonamide imp.			
	Acyclovir			
CL0002	Acyclovir working std. 2-Amino-1,9-dihydro-9-((2-hydroxyethoxy)methyl)-6H-purin-6-one		CAS: 59277-89-3 MF: C ₈ H ₁₁ N ₅ O ₃ MW: 225.21	
CL0003	Acyclovir Impurity-A		CAS: 102728-64-3 MF: C ₁₀ H ₁₃ N ₅ O ₄ MW: 267.25	
CL0004	Acyclovir L- alaninate Valaciclovir Impurity-H 9-[(2-Hydroxyethoxy)methyl]guanine L-alaninate, 2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl L-alaninate		CAS: 84499-64-9 MF: C ₁₁ H ₁₆ N ₆ O ₄ MW: 296.28	
CL0005	Acyclovir L-isoleucinate Valacyclovir Impurity-J L-Isoleucine 2-[(2-Amino-1,6-dihydro-6-oxo-9H-purin-9-yl)methoxy]ethyl Ester		CAS: 142963-63-1 MF: C ₁₄ H ₂₂ N ₆ O ₄ MW: 338.36	
	Allopurinol			
CL0006	Allopurinol Nitrile Impurity 3-Aminopyrazole-4-carbonitrile; 3-Amino-1H-pyrazole-4-carbonitrile;		CAS: 16617-46-2 MF: C ₄ H ₄ N ₄ MW: 108.1	

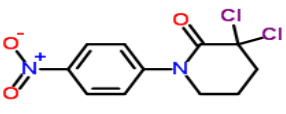
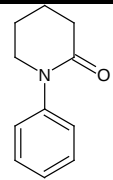
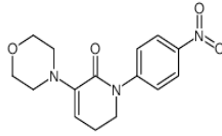
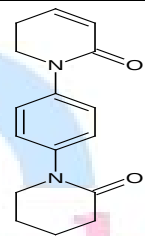
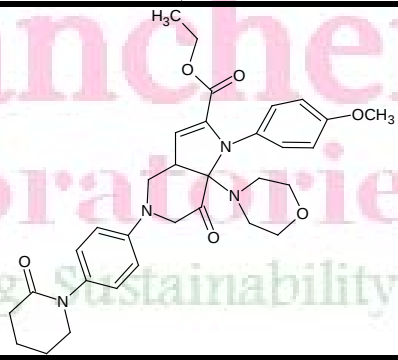
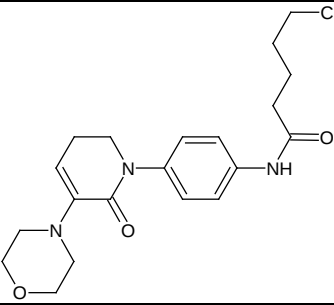
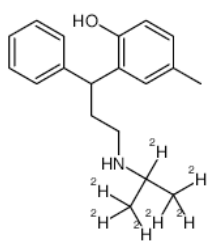
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Alogliptine			
CL0007	Alogliptine Benzoate working std. 2-({6-[(3R)-3-aminopiperidin-1-yl]-3-methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)methyl)benzonitrile		CAS:850649-62-6 MF:C18H21N5O2 MW:339.39	
CL0008	Alogliptine S-Isomer 2-({6-[(3S)-3-aminopiperidin-1-yl]-3-methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)methyl)benzonitrile		CAS: MF:C18H21N5O2 MW:339.39	
CL0009	Alogliptine -I			
CL00010	Alogliptine-II			
CL00011	Alogliptine-III			
CL00012	(R)-(-)-3-Aminopiperidine Dihydrochloride		CAS:334618-23-4 MF:C ₅ H ₁₂ N ₂ ·2HCl MW: 173.08	
	Amlodipine besylate			
CL00013	Amlodipine basylate working std		CAS:88150-42-9	
	Amlodipine Maleate			
CL00014	Amlodipine working std. (RS)-3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate		CAS: 88150-47-4 MF:C ₂₀ H ₂₅ ClN ₂ O ₅ ·C ₄ H ₄ O ₄ MW: 408.89116.07	
	Amodiaquine			

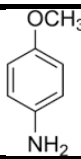
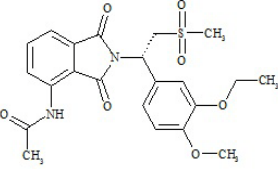
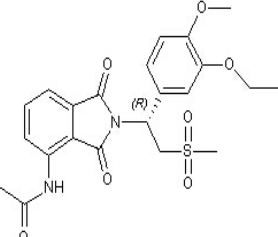
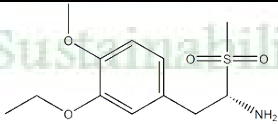
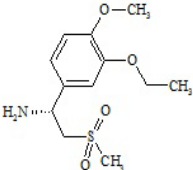
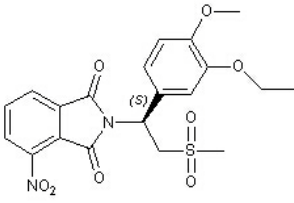
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00015	Amodiaquine HCL working std. USP 4-[(7-chloroquinolin-4-yl)amino]-2-[(diethylamino)methyl]phenol		CAS:46-82-0 MF: C ₂₀ H ₂₂ ClN ₃ O MW:355.86	
	Apixaban			
CL00016	Apixaban working std. 1-(4-methoxyphenyl)-7-oxo-6-[4-(2-oxopiperidin-1-yl)phenyl]-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide		CAS: 503612-47-3 MF: C ₂₅ H ₂₅ N ₅ O ₄ MW: 459.51	
CL00017	1-(4-aminophenyl)-3-(morpholin-4-yl)-5,6-dihydropyridin-2(1H)-one (Amino morpholine lactum intermediate)		CAS: MF: C ₁₅ H ₁₉ N ₃ O ₂ MW:273.33	
CL00018	5-chloro-N-phenyl pentanamide (Amide intermediate)		MF:C ₁₁ H ₁₄ Cl NO MW:211.69	
CL00019	Ester Intermediate		MF:C ₂₇ H ₂₈ N ₄ O ₅ MW:488.54	
CL00020	Ethyl chloro[(4-methoxyphenyl)hydrazono]acetate		CAS:27143-07-3 MF: MW:256.69	
CL00021	1-(4-nitrophenyl) piperidin-2-one		MF:C ₁₁ H ₁₂ N ₂ O ₃ MW:220.22	

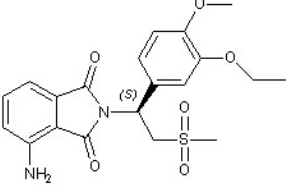
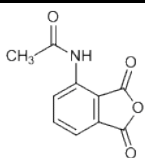
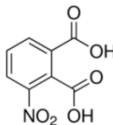
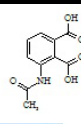
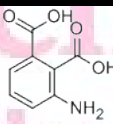
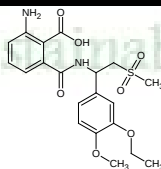
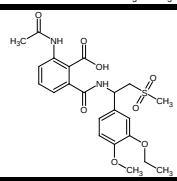
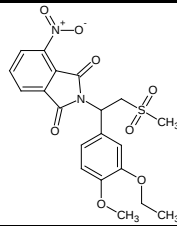
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00022	3,3-Dichloro-1-(4-nitrophenyl)-2-piperidinone		CAS NO:881386-01-2 MF: C ₁₁ H ₁₀ Cl ₂ N ₂ O ₃ MW:289.11	
CL00023	1-phenylpiperidin-2-one		CAS:4789-9-7 MF: C ₁₁ H ₁₃ NO MW:175.22	
CL00024	3-morpholin-4-yl-1-(4-nitrophenyl)-5,6-dihydropyridin-2(1H)-one		CAS: 503615-3-0 MF: C ₁₅ H ₁₇ N ₃ O ₄ MW: 303.3	
CL00025	1-[4-(2-oxopiperidin-1-yl)phenyl]-5,6-dihydropyridin-2(1H)-one		MF:C ₁₆ H ₁₈ N ₂ O ₂ MW:270.32	
CL00026	Apixaban Impurity-1		MF:C ₃₂ H ₃₈ N ₆ O ₄ MW:574.66	
CL00027	Apixaban Impurity-2		MF:C ₂₀ H ₂₆ ClN ₃ O ₃ MW:391.89	
CL00028	N-isopropyl-3-(2-hydroxy-5-methylphenyl)-3-phenylpropylamine		CAS:1346600-20-1 MF: C ₁₉ H ₁₈ D ₇ N O MW:290.45	

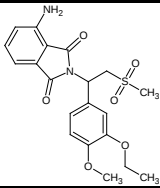
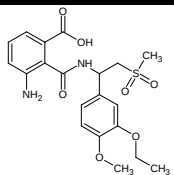
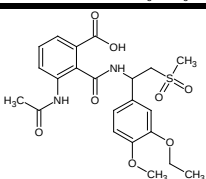
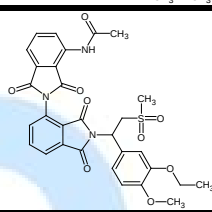
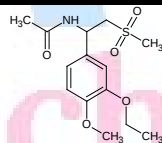
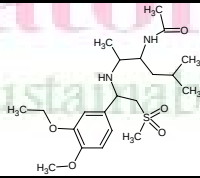
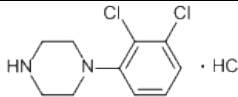
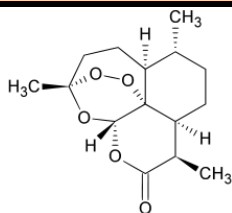
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00029	p-Anisidine / p-Anisylamine		CAS-104-94-9 MF: C7H9NO MW:123.15	
	Apremilast			
CL00030	Apremilast Working Std. (S)-N-(2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-1,3-dioxoisoindolin-4-yl)acetamide;N-[2-[(1R)-1-(3-ethoxy-4-methoxyphenyl)-2-mesyl-ethyl]-1,3-diketo-isoindolin-4-yl]acetamide		CAS No. 608141-41-9 MF: C22H24N2O7S MW: 460.51	
CL00031	Apremilast Enantiomer (R-Isomer) (R)-N-(2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-1,3-dioxoisoindolin-4-yl)acetamide;N-[2-[(1R)-1-(3-ethoxy-4-methoxyphenyl)-2-mesyl-ethyl]-1,3-diketo-isoindolin-4-yl]acetamide		MF: C22H24N2O7S MW: 460.51	
CL00032	(S)-1-(3-Ethoxy-4-Methoxyphenyl)-2-(Methylsulfonyl)ethanamine		608141-42-0 C12H19NO4S 273.35	
CL00033	(R)-1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethanamine			
CL00034	Apremilast Impurity Nitro Apremilast (S)-2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-4-nitroisoindoline-1,3-dione		CAS: MF: C20H20N2O8S MW:448.45	

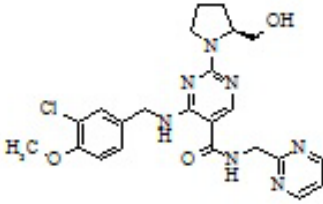
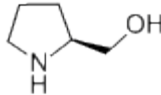
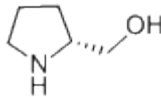
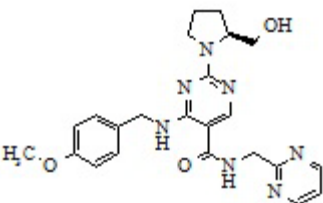
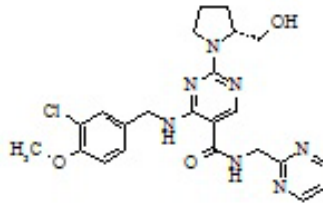
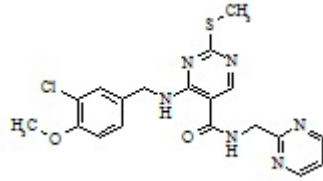
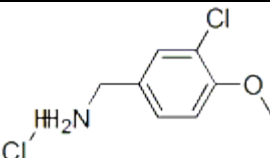
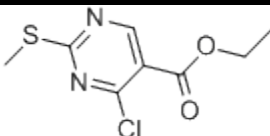
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00035	Apremilast Impurity Amino Apremilast (S)-2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-4-aminoisoindoline-1,3-dione		CAS: MF: C20H22N2O6S MW:418.45	
CL00036	3-Acetamidophthalic Anhydride, 1,3-Dioxo-2-isoindolineaceticacid		CAS:6296-53-3 MF:C10H7NO4 MW:205.17	
CL00037	3-Nitrophthalic Acid		CAS:603-11-2 MF: MW:211.13	
CL00038	Apremilast Impurity B 3-(acetylamino)benzene-1,2-dicarboxylic acid 3-Acetamidophthalic acid		CAS:15371-06-9 MF:C10H9NO5 MW: 223.19	
CL00039	Apremilast Impurity G 3-AMINO-1,2-BENZENEDICARBOXYLIC ACID, o-Aminophthalic acid		CAS:5434-20-8 MF: C8H7NO4 MW:181.15	
CL00040	Apremilast Impurity F		CAS: MF:C20H24N2O7S MW: 436.49	
CL00041	Apremilast Impurity I		CAS: MF:C22H26N2O8S MW:478.51	
CL00042	Apremilast Impurity 1		CAS: MF:C22H22N2O8S MW:448.44	

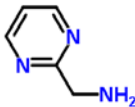
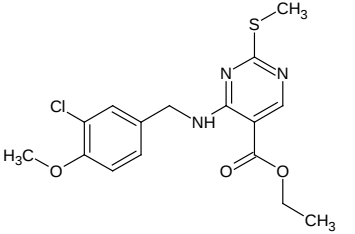
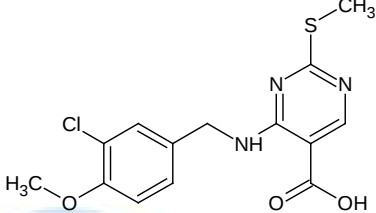
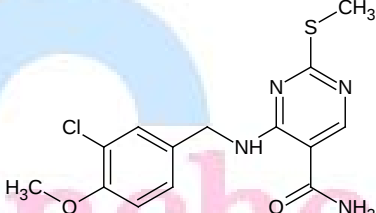
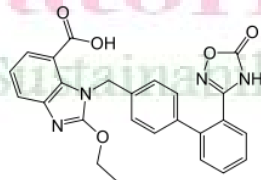
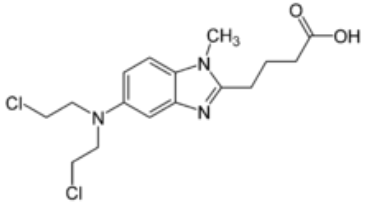
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00043	Apremilast Impurity 2		CAS: MF:C20H22 N2O6S MW:418.46	
CL00044	Apremilast Impurity F"		CAS: MF:C20H24 N2O7S MW: 436.49	
CL00045	Apremilast Impurity I"		CAS: MF:C22H26 N2O8S MW:478.51	
CL00046	Apremilast Impurity 3		CAS: MF:C30H27 N3O9S MW:605.61	
CL00047	APREMILAST IMPURITY 4 N-[1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl]acetamide		CAS: MF:C14H21 NO5S MW:315.38	
CL00048	Apremilast Impurity 5		CAS: MF:C21H36 N2O5S MW:428.58	
	Aripiprazole			
CL00049	1-(2,3-Dichlorophenyl) piperazine Hydrochloride		CAS:119532-26-2 MF:C ₁₀ H ₁₂ Cl ₂ N ₂ ·HCl MW: 267.58	
	Artemisininine			
CL00050	Artemisininine		CAS: 63968-64-9 MF: C ₁₅ H ₂₂ O ₅ MW: 282.32	

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	Avanafil			
CL00051	Avanafil working std.		CAS: 330784-47-9 MF: C ₂₃ H ₂₆ ClN ₇ O ₃ MW: 483.96	
CL00052	L-Prolinol (S)-(+)-2-(Hydroxymethyl)pyrrolidine		23356-96-9 C ₅ H ₁₁ NO 101.15	
CL00053	D-Prolinol		68832-13-3 C ₅ H ₁₁ NO 101.15	
CL00054	Des methoxy Impurity			
CL00055	Avanafil Impurity-4 Deschloro Impurity		MF: C ₂₃ H ₂₇ N ₇ O ₃ MW: 449.52	
CL00056	Avanafil Impurity-8 Avanafil R-isomer		MF: C ₂₃ H ₂₆ ClN ₇ O ₃ MW: 483.96	
CL00057	Avanafil impurity-2		CAS: MF: C ₁₉ H ₁₉ ClN ₆ O ₂ S MW: 430.92	
CL00058	3-Chloro -4-Methoxy benzylamine HCl		41965-95-1 C ₈ H ₁₁ Cl ₂ NO 208.09	
CL00059	Ethyl 4-chloro-2-methylthio-5-pyrimidinecarboxylate		5909-24-0 C ₈ H ₉ ClN ₂ O ₂ S 232.69	

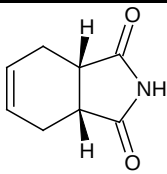
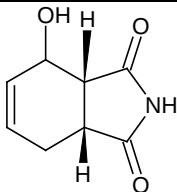
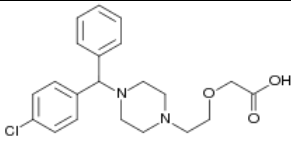
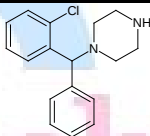
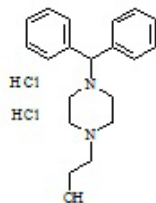
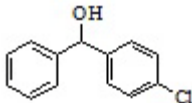
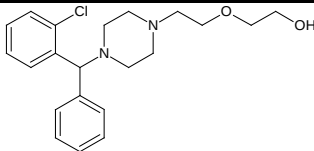
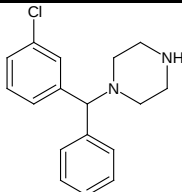
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00060	2-Aminomethyl pyrimidine HCl		CAS: 372118-67-7 C ₅ H ₇ N ₃ 109.129	
CL00061	Ethyl 4((3-chloro-4 methoxybenzyl) amino)-2 (methyl sulfonyl) pyrimidine 5-carboxylate			
CL00062	4((3-chloro-4 methoxybenzyl) amino)-2 (methyl sulfonyl) pyrimidine 5-carboxylic acid			
CL00063	4((3-chloro-4 methoxybenzyl) amino)-2 (methyl sulfonyl) N-(pyrimidine) -2yl methyl pyrimidine- 5 carboxamide			
	Azilsertan			
CL00064	Azilsertan working std.		CAS:147403-03-0 MF: C ₂₅ H ₂₀ N ₄ O ₅ MW:456.46	
	Barnidipine			
	Alkylated hydroxyl sulphonamide impurity			
	Bendamustine HCl			
CL00065	Bendamustine working std. 4-[5-[Bis(2-chloroethyl)amino]-1-methylbenzimidazol-2-yl]butanoic acid		CAS:16506-27-7 MF:C ₁₆ H ₂₁ Cl ₂ N ₃ O ₂ MW:358.40	

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CL00066	Bendamustine Impurity HP1 Bendamustine Impurity A		CAS: 109882-27-1 C ₁₆ H ₂₂ ClN ₃ O ₃ M.W. 339.83	
CL00067	Bendamustine Impurity HP2 Bendamustine Dihydroxy Impurity		CAS: 109882-30-6 C ₁₆ H ₂₃ N ₃ O ₄ M.W. 321.38	
CL00068	Bendamustine Methyl ester Impurity			
CL00069	Bendamustine Related Impurity 11		CAS: 87475-54-5 C ₁₈ H ₂₅ Cl ₂ N ₃ O ₂ M.W. 386.32	
CL00070	Bendamustine Impurity C		CAS :1313020-25-5 C ₁₉ H ₂₇ Cl ₂ N ₃ O ₂ M.W. 400.35	
	Bisoprolol Fumarate			
CL00071	Bisoprolol Fumarate working std. (RS)-1-{4-[(2-isopropoxyethoxy)methyl]phenoxy}-3-(isopropylamino)propan-2-ol		CAS: 66722-44-9 MF: C ₁₈ H ₃₁ NO ₄ MW: 325.44	
	Captan Metabolites			
CL00072	THPAM (1R,6S)-6-carbamoylcyclohex-3-ene-1-carboxylic acid			
CL00073	THPAI (1R,2S)-cyclohex-4-ene-1,2-dicarboxylic acid			

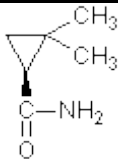
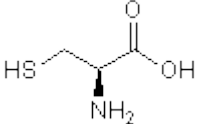
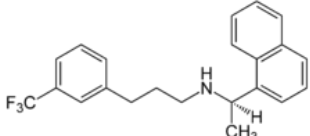
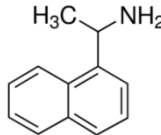
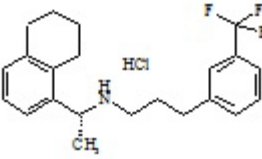
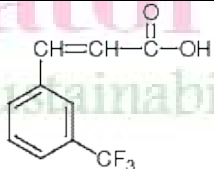
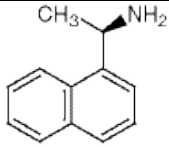
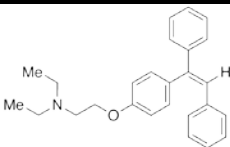
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00074	THPI (3aR,7aS)-3a,4,7,7a-tetrahydro-1H-isoindole-1,3(2H)-dione			
CL00075	3-OH THPI (3aR,7aR)-4-hydroxy-3a,4,7,7a-tetrahydro-1H-isoindole-1,3(2H)-dione			
	Cetirizine			
CL00076	Cetirizine HCl (±)-[2-[4-[(4-chlorophenyl)phenylmethyl]-1-piperazinyl]ethoxy]acetic acid			
CL00077	Cetirizine Impurity-2-Chloro BHP 1-[(2-chlorophenyl)(phenyl)methyl]piperazine		MF: C ₁₇ H ₁₉ ClN ₂ MW: 286.80	
CL00078	Deschloro Cetirizine ethanol		CAS: 108983-83-1 MF: C ₁₉ H ₂₄ N ₂ O 2HCl MW: 296.42 2x36.46	
CL00079	4-Chloro Benzhydrol		MF: C ₁₃ H ₁₁ ClO MW: 218.69	
CL00080	Ethoxy Cetirizine. HCl		MF: C ₂₁ H ₂₇ Cl N ₂ O ₂ MW: 374.90	
CL00081	3-Chloro BHP 1-[(3-chlorophenyl)(phenyl)methyl]piperazine		MF: C ₁₇ H ₁₉ Cl N ₂ MW: 286.80	

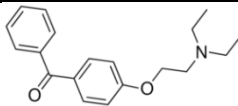
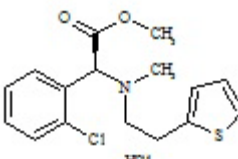
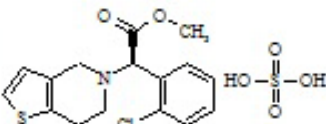
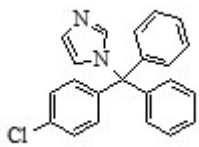
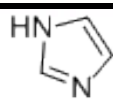
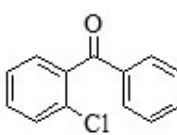
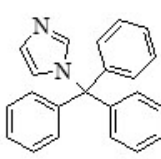
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00082	Cetirizine 3-chloro Impurity . HCl		MF: C ₂₁ H ₂₅ ClN ₂ O ₃ MW: 388.90	
CL00083	Benzhydrol		CAS:91-01-0 MF: C ₁₃ H ₁₂ O MW:184.23	
CL00084	Benzhydrylpiperazine (BHP) 1-(Diphenylmethyl) Piperazine		CAS- 841-77-0 MF: C ₁₇ H ₁₉ N MW:252.35	
CL00085	Cetirizine Impurity -D Cetirizine Dimer 1,4-BIS((4-CHLOROPHENYL)PHENYLMETHYL)PIPERAZINE		CAS: 856841-95-7 M.F.: C ₃₀ H ₂₈ Cl ₂ N ₂ ·2 HCl MW: 487.48 2 36.46	
CL00086	3-Chlorobenzophenone		CAS: 1016-78-0 MF: C ₁₃ H ₉ ClO MW:216.66	
	Cilastatin			
CL00087	Cilastatin Sodium working std. (Z)-7-[(2R)-2-Amino-3-hydroxy-3-oxopropyl] sulfanyl-2-[[[(1S)-2,2-dimethylcyclopropanecarbonyl]amino]hept-2-enoic acid		CAS:82009-34-5 MF:C ₁₆ H ₂₆ N ₂ O ₅ S MW:358.46	
CL00088	Cilastatin Impurity- (Z)-7-chloro-((S)-2,2-dimethylcyclopropanecarboxamido)-2-heptenoic acid		CAS: 877674-77-6 MF: C ₁₃ H ₂₀ ClN ₂ O ₃ MW:273.11	

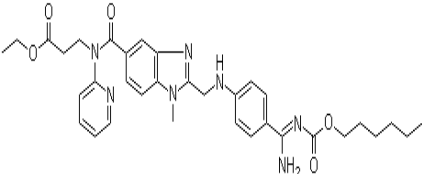
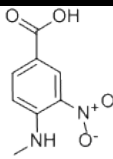
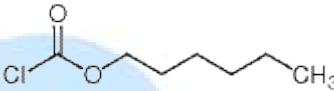
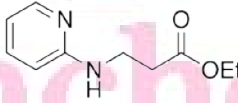
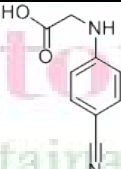
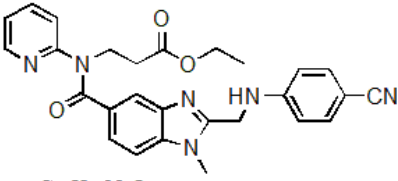
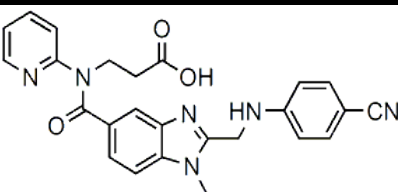
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00089	Cilastatin Impurity (S)-(+)-2,2-Dimethyl cyclopropanecarboxamid e		CAS: 75885- 58-4 MF: C ₆ H ₁₁ NO MW:113.16	
CL00090	L-Cysteine		CAS:52-90-4 MF: C ₃ H ₇ NO ₂ S MW:121.15	
	Cinacalcet			
CL00091	Cinacalcet R-isomer (R)-N-[1-(1-naphthyl) ethyl]-3- [3-(trifluoromethyl) phenyl]propan-1-amine		CAS:364782- 34-3 MF:C ₂₂ H ₂₂ F ₃ N. HCl MW: 357.41 36.5	
CL00092	Cinacalcet Impurity-D R,S (±) 1-(1- Naphthyl)ethylamine. Tartarate salt		CAS:42882- 31-5 MF: C ₁₂ H ₁₃ N M W:361.45	
CL00093	Tetrahydro Cinacalcet Impurity (S-Isomer)		CAS: MF:C ₂₂ H ₂₆ F ₃ N MW:361 .45	
CL00094	3-(Trifluoromethyl) cinnamic acid		CAS: MF: C ₁₀ H ₇ F ₃ O ₂ MW:216.16	
CL00095	(R)-(+)-1-(1-Naphthyl) ethylamine		CAS: 3886- 70-2 MF: C ₁₂ H ₁₃ N MW:171.24	
	Clomiphene Citrate			
CL00096	Clomiphene Impurity-A Deschloro Clomiphene: 2-[4-(1,2- diphenylethenyl) phenoxy]-N,N- diethylethanamine		CAS:1346606 -17-4 MF: C ₂₆ H ₂₄ D ₅ N O	

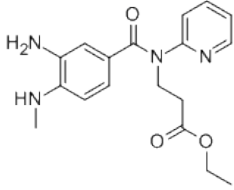
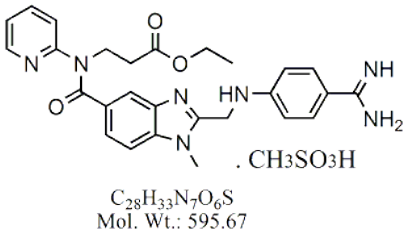
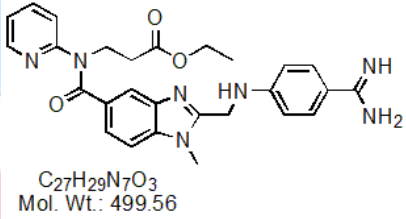
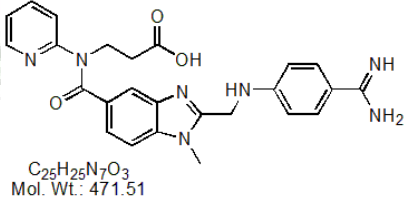
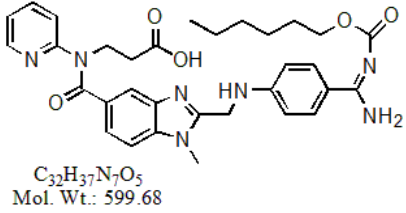
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL00097	Clomiphene Citrate Impurity-B [4-[2-(diethylamino)ethoxy]phenyl]phenylmethanone		CAS:51777-15-2 MF:C ₁₇ H ₁₉ N O ₂ MW: 269.34	
	Clopidogrel			
CL00098	Clopidogrel Impurity-I N-methyl Impurity			
CL00099	Clopidogrel adduct Impurity			
CL000100	Clopidogrel Impurity-C (R-Clopidogrel)		CAS:120202-71-3 MF: C ₁₆ H ₁₆ ClNO 2S H ₂ O ₄ S MW: 321.83 98.08	
	Clotrimazole			
CL000101	Clotrimazole Impurity-B 1[(4-chlorophenyl)diphenylmethyl]-1H-imidazole		CAS: 23593-71-7 M.F.: C ₂₂ H ₁₇ ClN ₂ M.W.: 344.85	
CL000102	Clotrimazole Impurity-D Imidazole		CAS:288-32-4 MF: C ₃ H ₄ N ₂ MW:68.08	
CL000103	Clotrimazole Impurity-E (2-Chlorophenyl)phenylmethanone		CAS:5162-03-8 M.F.: C ₁₃ H ₉ ClO M.W.: 216.67	
CL000104	Clotrimazole Impurity-F 1-(triphenylmethyl)-1H-imidazole / Deschloroclotrimazole		CAS:15469-97-3 M.F.: C ₂₂ H ₁₈ N ₂ M.W.: 310.40	

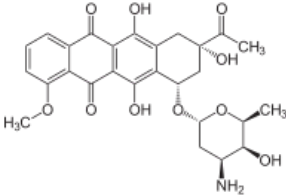
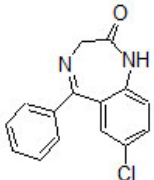
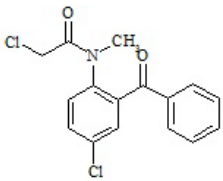
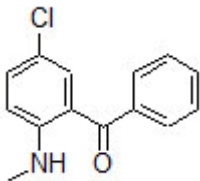
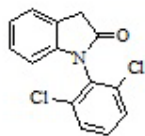
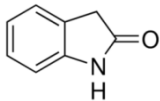
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Dabigatran			
CL000105	Dabigatran Etexylate working std. ethyl 3-[[2-[[4-[(E)-N'-hexoxycarbonylcarbamimidoyl]anilino]methyl]-1-methylbenzimidazole-5-carbonyl]-pyridin-2-ylamino]propanoate		CAS: 211915-06-9 MF: C ₃₄ H ₄₁ N ₇ O ₅ MW: 627.73	
CL000106	Dabigatran aldehyde Impurity			
CL000107	4-(METHYLAMINO) - 3-NITROBENZOIC ACID		CAS: 41263-74-5 MF: C ₈ H ₈ N ₂ O ₄ MW: 196.16	
CL000108	Hexyl Chloroformate		CAS: 6092-54-2 MF: C ₇ H ₁₃ ClO ₂ MW: 164.63	
CL000109	Ethyl 3-(pyridin-2-ylamino)propanoate		CAS: 103041-38-9 MF: C ₁₀ H ₁₄ N ₂ O ₂ MW: 194.24	
CL000110	2-[(4-cyanophenyl)amino]acetic acid		CAS: 42288-26-6 MF: C ₉ H ₈ N ₂ O ₂ MW: 176.17	
CL000111	Dabigatran Cyano Ester Impurity Ethyl 3-[[[2-[[4-(4-Cyano phenyl) amino] methyl]-1-methyl-1H-benzimidazol-5-yl] carbonyl]pyridine -2-yl aminopropionate	 C ₂₇ H ₂₆ N ₆ O ₃ Mol. Wt.: 482.53	CAS: 211915-84-3 MF: C ₂₇ H ₂₆ N ₆ O ₃ MW: 482.53	
CL000112	Dabigatran Cyano Acid Impurity 3-({2-[(4-Cyanophenyl)amino]-methyl}-1-methyl-1H-benzimidazole-5-carbonyl)-pyridin-2-yl-amino)-propionic acid	 C ₂₅ H ₂₂ N ₆ O ₃ Mol. Wt.: 454.48	CAS: 212322-77-5 MF: C ₂₅ H ₂₂ N ₆ O ₃ MW: 454.48	

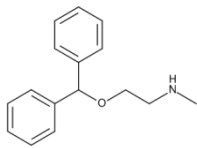
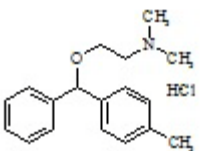
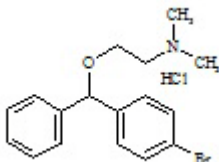
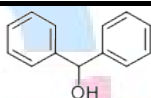
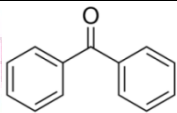
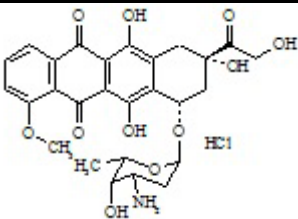
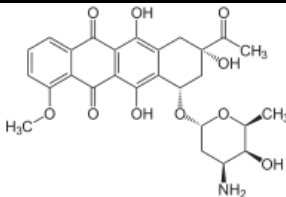
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000113	Dabigatran Methylamino impurity 3-[(3-AMINO-4-METHYLAMINO-BENZOYL)-PYRIDIN-2-YL-AMINO]-PROPIONIC ACID ETHYL ESTER		CAS:212322-56-0 MF:C18H22N4O3 MW:342.39	
CL000114	Dabigatran Amidine mesylate Impurity 3-({2-[(4-Carbamimidoyl-phenylamino)-methyl]-1-methyl-1H-benzimidazole-5-carbonyl}-pyridin-2-yl-amino)-propionic acid ethyl ester	 $C_{28}H_{33}N_7O_6S$ Mol. Wt.: 595.67	CAS:429658-95-7 MF:C28H33N7O6S MW:595.67	
CL000115	Dabigatran Amidine Impurity 3-({2-[(4-Carbamimidoyl-phenylamino)-methyl]-1-methyl-1H-benzimidazole-5-carbonyl}-pyridin-2-yl-amino)-propionic acid ethyl ester	 $C_{27}H_{29}N_7O_3$ Mol. Wt.: 499.56	CAS:429658-95-7 MF:C27H29N7O3 MW:499.56	
CL000116	Dabigatran Amidine acid impurity 3-({2-[(4-Carbamimidoyl-phenylamino)-methyl]-1-methyl-1H-benzimidazole-5-carbonyl}-pyridin-2-yl-amino)-propionic acid	 $C_{25}H_{25}N_7O_3$ Mol. Wt.: 471.51	CAS:211914-51-1 MF:C25H25N7O3 MW:471.51	
CL000117	Dabigatran Acid Impurity, O-Desethyl Dabigatran Etexilate 3-[[{(2-[(4-{N?-Hexyloxycarbonyl carbamimidoyl}phenyl)amino]methyl)-1-methyl-1H-benzimidazol-5-yl)carbonyl]-pyridin-2-yl-amino]-propionic acid	 $C_{32}H_{37}N_7O_5$ Mol. Wt.: 599.68	CAS: 212321-78-3 MF:C32H37N7O5 MW:599.68	

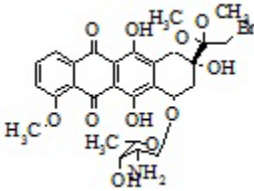
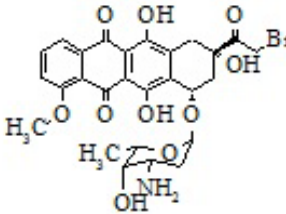
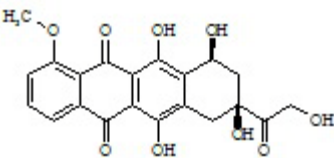
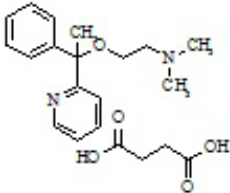
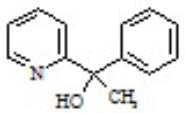
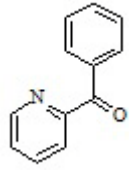
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	yl-amino)propanoic acid			
	Daunorubicin			
CL000118	Daunorubicin working std. (8S,10S)-8-acetyl-10-[(2S,4S,5S,6S)-4-amino-5-hydroxy-6-methyl-oxan-2-yl]oxy-6,8,11-trihydroxy-1-methoxy-9,10-dihydro-7H-tetracene-5,12-dione		CAS:20830-81-3 MF:C27H29NO10.HCl MW: 527.5336.46	
	Diazepam			
CL000119	Diazepam Impurity-A 7-chloro-5-phenyl-1,3-dihydro-2H-1,4-benzodiazepin-2-one (nordazepam),			
CL000120	Diazepam Impurity-B 2-chloro-N-(4-chloro-2-benzoylphenyl)-N-methylacetamide,		CAS No. 6021-21-2 M.F.: C16H13Cl2NO2 M.W.: 322.19	
CL000121	Diazepam Impurity-D 5-chloro-2-(methylamino)phenyl]phenyl methanone			
	Diclofenac Sodium			
CL000122	Diclofenac Impurity-A 1-(2,6-dichlorophenyl)-1,3-dihydro-2H-indol-2-one		M.F.: C14H9Cl2NO M.W.: 278.14	
CL000123	Diclofenac Impurity-C 2-oxindole		CAS: 59-48-3 MF: C8H7NO MW: 133.15	

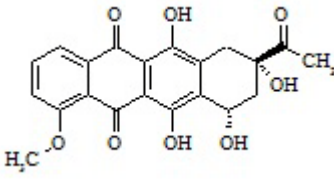
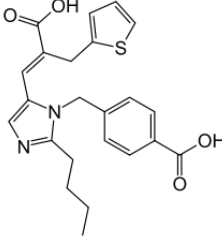
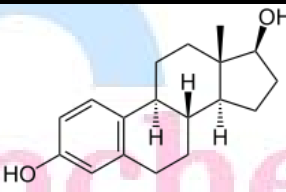
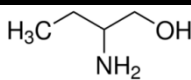
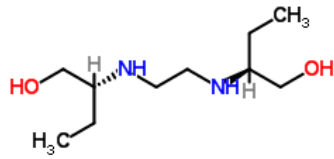
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Diphenhydramine			
CL000124	Diphenhydramine Impurity-A 2-(diphenylmethoxy)-N-methylethanamine		CAS: 53499-40-4 MF: C ₁₆ H ₁₉ NO HCl MW: 241.34 36.46	
CL000125	Diphenhydramine Impurity-B 2-[(RS)-(4-methylphenyl)phenylmethoxy]-N,N-dimethylethanamine		CAS:4024-34-4 M.F.: C ₁₈ H ₂₃ NO. HCl M.W.: 269.39 36.46	
CL000126	Diphenhydramine Impurity-C 2-[(RS)-(4-bromophenyl)phenylmethoxy]-N,N-dimethylethanamine		M.F.: C ₁₇ H ₂₀ BrN O. HCl M.W.: 334.26 36.46	
CL000127	Diphenhydramine Impurity-D DIPHENYLMETHANOL; Benzhydrol		CAS: 91-01-0 MF: C ₁₃ H ₁₂ O MW: 184.23	
CL000128	Diphenhydramine Impurity-E Diphenyl Ketone		CAS: 119-61-9 MF: C ₁₃ H ₁₀ O MW: 182.22	
	Doxorubicin			
CL000129	Doxorubicin working std (7S,9S)-7-[(2R,4S,5S,6S)-4-amino-5-hydroxy-6-methyloxan-2-yl]oxy-6,9,11-trihydroxy-9-(2-hydroxyacetyl)-4-methoxy-8,10-dihydro-7H-tetracene-5,12-dione		CAS:25316-40-9 MF: C ₂₇ H ₂₉ NO 1 HCl MW: 543.53 36.46	
CL000130	Doxorubicin Impurity-A Daunorubicin (8S,10S)-8-acetyl-10-[(2S,4S,5S,6S)-4-amino-5-hydroxy-6-methyl-		CAS:20830-81-3 MF:C ₂₇ H ₂₉ NO10.HCl MW: 527.53 36.46	

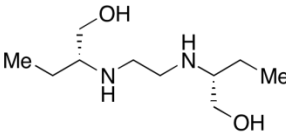
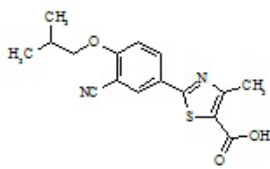
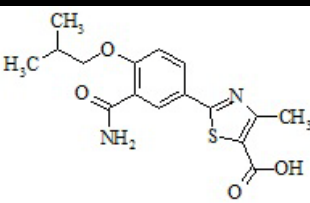
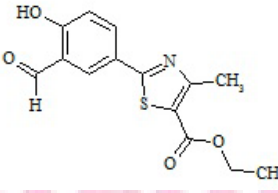
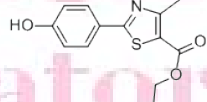
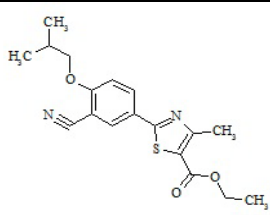
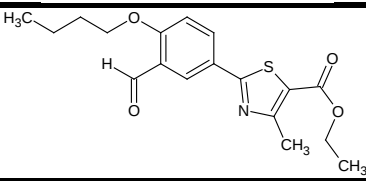
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	oxan-2-yl]oxy-6,8,11-trihydroxy-1-methoxy-9,10-dihydro-7H-tetracene-5,12-dione			
CL000131	Doxorubicin Impurity-B		CAS: 106401-68-7 MF: C ₂₉ H ₃₄ BrNO ₁₁ MW: 652.50	
CL000132	Doxorubicin Impurity-C 14-Bromo Daunorubicin		MF: C ₂₇ H ₂₈ BrNO ₁₀ MW: 606.43	
CL000133	Doxorubicin Impurity-D Doxorubicine Aglycone; Doxorubicinone; (8S,10S)-7,8,9,10-tetrahydro-6,8,10,11-tetrahydroxy-8-(2-hydroxyacetyl)-1-methoxytetracene-5,12-dione		CAS: 24385-10-2 MF: C ₂₁ H ₁₈ O ₉ MW: 414.37	
	Doxylamine Succinate			
CL000134	Doxylamine Succinate working std.		CAS: 562-10-7 MF: C ₁₇ H ₂₂ N ₂ O ₄ MW: 270.38118.09	
CL000135	Doxylamine Succinate Impurity-B (1RS)-1-phenyl-1(pyridin-2-yl)ethanol		CAS: 19490-92-7 M.F.: C ₁₃ H ₁₃ NO M.W.: 199.25	
CL000136	Doxylamine Succinate Impurity-D Phenyl(pyridin-2-yl)methanone (2-benzoylpyridine)		CAS: 91-02-1 M.F.: C ₁₂ H ₉ NO M.W.: 183.21	

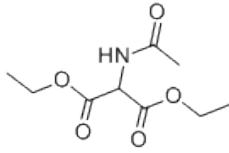
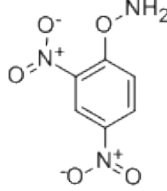
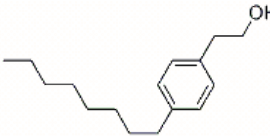
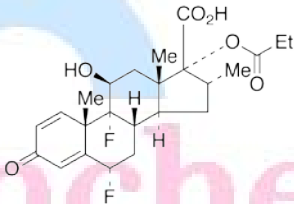
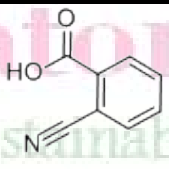
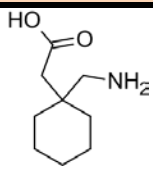
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Epirubicin			
CL000137	Epirubicin Impurity- B (Daunomycinone)		CAS:21794-55-8 MF:C ₂₁ H ₁₈ O ₈ MW: 398.37	
	Eprosartan			
CL000138	Eprosartan working std. 4-({2-Butyl-5-[2-carboxy-2-(thiophen-2-ylmethyl)eth-1-en-1-yl]-1H-imidazol-1-yl}methyl)benzoic acid		CAS:133040-01-4 MF: C ₂₃ H ₂₄ N ₂ O ₄ S MW:520.62	
	Estradiol			
CL000139	Estradiol working std-USP Estriol Impurity-D (EP) Ethinylestradiol - Impurity- D (EP) (Estra-1,3,5(10)-triene-3,17β-diol) (8R,9S,13S,14S,17S)-13-methyl-6,7,8,9,11,12,14,15,16,17-decahydrocyclopenta[a]phenanthrene-3,17-diol		CAS:50-28-2 MF:C ₁₈ H ₂₄ O ₂ MW: 272.39	
	Ethambutol			
CL000140	Ethambutol Impurity-A 2-amino butanol		CAS: 96-20-8 MF: C ₂ H ₅ CH(NH ₂)CH ₂ OH MW: 89.14	
CL000141	Ethambutol Impurity-B Meso Etambutol (2S)-2-[2-[(2R)-1-hydroxybutan-2-yl]amino]ethylamino]butan-1-ol		MF: C ₁₀ H ₂₄ N ₂ O ₂ MW: 204.31	

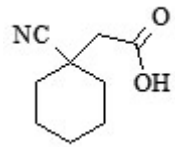
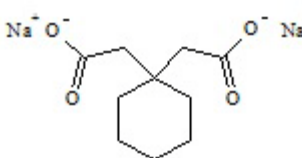
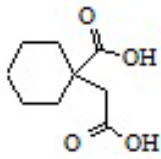
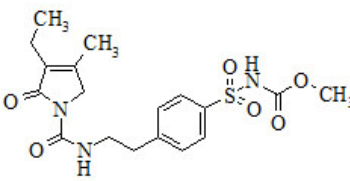
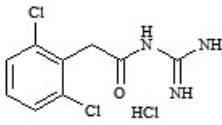
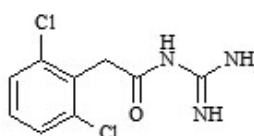
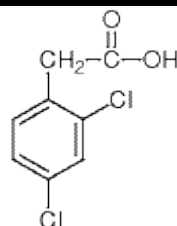
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000142	Ethambutol Impurity-C (R,R)-Ethambutol Dihydrochloride		CAS: 134566-79-3 MF: C ₁₀ H ₂₆ Cl ₂ N ₂ O ₂ MW: 277.23	
	Febuxostat			
CL000143	Febuxostat working std.		CAS No. 144060-53-7 M.F.: C ₁₆ H ₁₆ N ₂ O ₃ S M.W.: 316.38	
CL000144	Febuxostat Impurity- A (TLC impurity-4) Amide impurity		CAS - 1239233-86-3 MF- C ₁₆ H ₁₈ N ₂ O ₄ S MW- 334.40	
CL000145	Febuxostat Impurity-B (TLC imp-1)		CAS - 161798-01-2 MF- C ₁₄ H ₁₃ NO ₄ S MW- 291.33	
CL000146	Febuxostat Impurity-Desaldehyde impurity ethyl 2-(4-hydroxyphenyl)-4-methyl thiazole-5-carboxylate		CAS: 161797-99-5 MF: C ₁₃ H ₁₃ NO ₃ S MW: 263.31	
CL000147	Febuxostat Impurity-D (TLC imp-3)		CAS-160844-75-7 MF- C ₁₈ H ₂₀ N ₂ O ₃ S MW- 344.44	
CL000148	Febuxostat n-Butyl ether impurity			
CL000149	Febuxostat polymorph-A			
CL000150	Febuxostat polymorph-G			

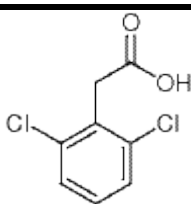
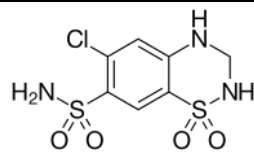
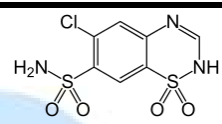
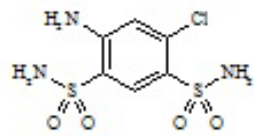
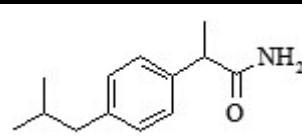
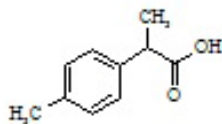
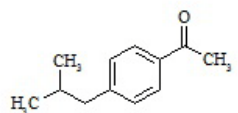
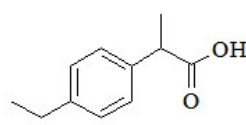
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Fingolimod			
CL000151	Diethyl acetamidomalonate		1068-90-2 C9H15NO5 217.22	
CL000152	Fingolimod Impurity- O-(2,4-dinitrophenyl) hydroxylamine		17508-17-7 C6H5N3O5 199.121	
CL000153	2-(4-OCTYLPHENYL) ETHANOL		162358-05-6 C16H26O 234.37704	
	Fluticasone			
CL000154	Fluticasone 17β-Carboxylic Acid Propionate		CAS: 65429-42-7 MF: C24H30F2O6 MW: 452.49	
	Folpet Metabolites			
CL000155	2-Cyanobenzoic acid		CAS: 3839-22-3 MF: C5H5NO2 MW: 147.13	
	Gabapentin			
CL000156	Gabapentin working std.		CAS: 60142-96-3 MF: C9H17NO2.HCl MW: 171.24 36.46	
CL000157	Gabapentin Impurity-A Gabapentin Lactum Impurity		CAS: 64744-50-9 MF: C9H15NO MW: 153.23	

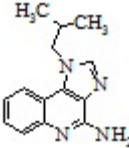
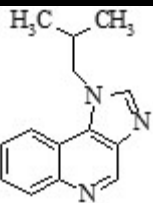
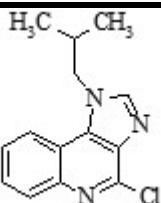
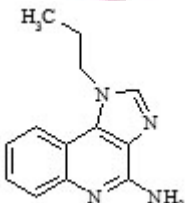
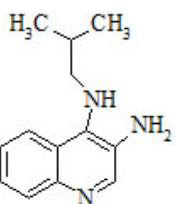
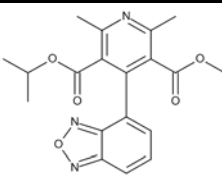
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000158	Gabapentin Impurity-B 1-Cyanocyclohexane Acetic acid		CAS:133481-12-6 C ₉ H ₁₂ NO ₂ .K M.W. 166.20	
CL000159	Gabapentin Impurity 2 1,1-Cyclohexane Diacetic acid		CAS No. 4355-11-7 C ₁₀ H ₁₆ O ₄ M.W. 200.24	
CL000160	Gabapentin Impurity E Gabapentin Diacid impurity		CAS: 667465-00-1 MF: C ₉ H ₁₄ O ₄ MW: 186.21	
	Glimepride			
CL000161	Glimepride Carbamate (Impurity- C) - EP		CAS No. 119018-30-3 M.F.: C ₁₈ H ₂₃ N ₃ O ₆ S M.W.: 409.46	
	Guanfacine			
CL000162	Guanfacine .HCl working std.		CAS:29110-48-3 MF:C ₉ H ₉ Cl ₂ N ₃ O.HCl MW: 246.1036.46	
CL000163	Guanfacine Free base		CAS:29110-47-2 MF:C ₉ H ₉ Cl ₂ N ₃ O MW:246.10	
CL000164	Guanfacine Dimer			
CL000165	2,4-Dichlorophenyl acetic acid		CAS:19719-28-9 MF: C ₈ H ₆ Cl ₂ O ₂ MW:205.04	

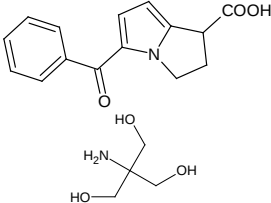
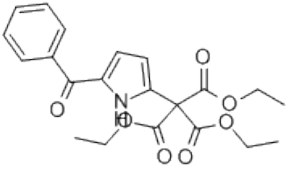
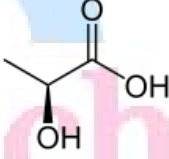
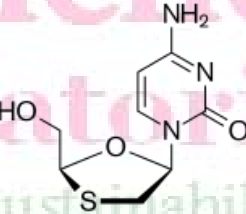
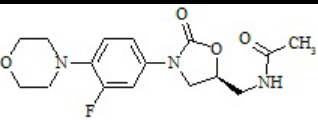
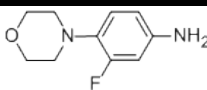
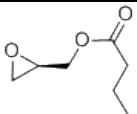
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000166	2,6-Dichlorophenyl acetic acid		CAS: 6575-24-2 MF: C ₈ H ₆ Cl ₂ O ₂ MW:205.04	
CL000167	Guanfacine Amide Impurity			
	Hydrochlorothiazide			
CL000168	Hydrochlorothiazide working std.		CAS No. 58-93-5 C ₇ H ₈ ClN ₃ O ₄ S S2 M.W. 297.73	
CL000169	Hydrochlorothiazide Impurity-A chlorothiazide,		CAS:58-94-6 MF: C ₇ H ₆ ClN ₃ O ₄ S 2 MW:295.72	
CL000170	Hydrochlorothiazide Impurity-B 4-amino-6-chlorobenzene-1,3-disulphonamide (salamide)		CAS:121-30-2 M.F.: C ₆ H ₈ ClN ₃ O ₄ S S2 M.W.: 285.73	
	Ibuprofen			
CL000171	Ibuprofen Impurity-C (2RS)-2-[4-(2-methyl propyl)phenyl]propanamide		CAS:59512-17-3 M.F.: C ₁₃ H ₁₉ NO M.W.: 205.30	
CL000172	Ibuprofen Impurity-D (2RS)-2-(4-methyl phenyl)propanoic acid,		CAS:938-94-3 M.F.: C ₁₀ H ₁₂ O ₂ M.W.: 164.21	
CL000173	Ibuprofen Impurity-E 1-[4-(2-methyl propyl)phenyl]ethanone,		CAS: 38861-78-8 M.F.: C ₁₂ H ₁₆ O M.W.: 176.26	
CL000174	Ibuprofen Impurity-N (2RS)-2-(4-ethylphenyl) propanoic acid,		CAS:3585-52-2 M.F.: C ₁₁ H ₁₄ O ₂ M.W.: 178.23	

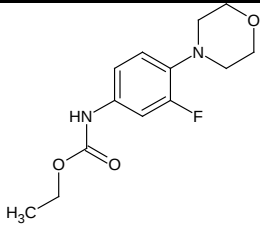
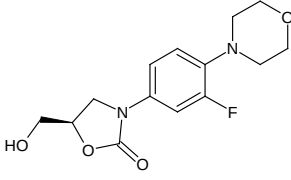
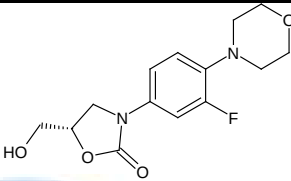
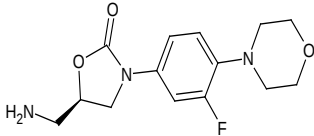
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Impurity, Working standards and Metabolites

	Imiquimode			
CL000175	Imiquimode working std.		CAS: 99011-02-6 MF: C ₁₄ H ₁₆ N ₄ MW: 240.31	
CL000176	Imiquimode Impurity - A		CAS: 99010-24-9 MF: C ₁₄ H ₁₅ N ³ MW: 225.30	
CL000177	Imiquimode Impurity - C		CAS: 99010-64-7 MF: C ₁₄ H ₁₄ ClN ₃ MW: 259.74	
CL000178	Imiquimode Impurity - D		CAS: 853792-81-1 MF: C ₁₃ H ₁₄ N ₄ MW: 226.28	
CL000179	Imiquimode Impurity - E		CAS: 99010-09-0 MF: C ₁₃ H ₁₇ N ³ MW: 215.30	
	Isradipine			
CL000180	Isradipine-A (USP) Dehydro Isradipine Isopropyl methyl 4-(4-benzofurazanyl)-2,6-dimethyl-3,5-pyridine dicarboxylate, Methyl 1-methylethyl 4-(2,1,3-benzoxadiazol-4-yl)-2,6-dimethylpyridine-3,5-dicarboxylate		CAS: 116169-18-7 MF: C ₁₉ H ₁₉ N ₃ O ₅ MW: 369.37	

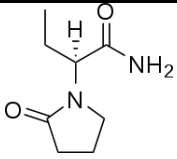
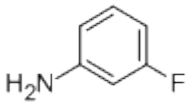
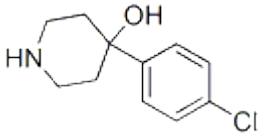
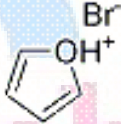
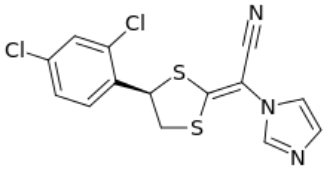
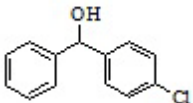
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Ivabradine			
	Ketorolac Tromethamine			
CL000181	Ketorolac Tromethamine working std.- USP		MF: C₁₅H₁₃NO₃·C₄H₁₁NO₃ MW:376.40	
CL000182	Triethyl[5-benzyl-1H pyrrol- yl]methane tricarboxylate		136116-84-2	
	Lactic Acid			
CL000183	Lactic Acid 2-Hydroxypropanoic acid		CAS:1 79-33-4 MF: C₃H₆O₃ MW: 90.08	
CL000184	Lamivudine USP 4-amino-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]-1,2-dihydropyrimidin-2-one		CAS:134678-17-4 MF: MW: 229.26	
	Linezolid			
CL000185	Linezolid working std. <i>N</i> -{[(5 <i>R</i>)-3-(3-fluoro-4-morpholin-4-ylphenyl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide		M.F.: C₁₆H₂₀FN₃O₄ M.W.: 337.35	
CL000186	3-Fluoro-4-morpholinoaniline		93246-53-8 C₁₀H₁₃FN₂O 196.22	
CL000187	(R)-Glycidyl butyrate		60456-26-0 C₇H₁₂O₃ 144.17	

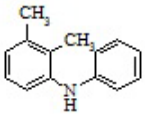
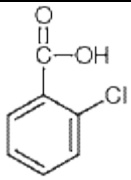
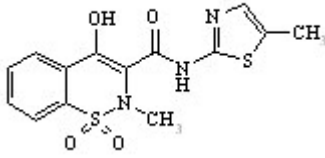
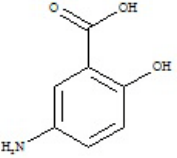
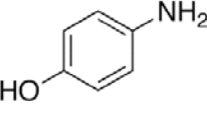
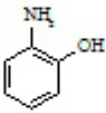
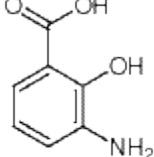
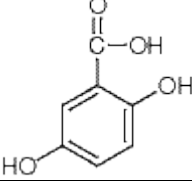
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Impurity, Working standards and Metabolites

CL000188	Linezolid Impurity- ethyl (3-fluoro-4-morpholin-4-ylphenyl)carbamate		MF: C₁₃H₁₇FN₂O₃ MW: 268.28	
CL000189	Linezolid Impurity- (5R)-3-(3-fluoro-4-morpholin-4-ylphenyl)-5-(hydroxymethyl)-1,3-oxazolidin-2-one		MF: C₁₄H₁₇FN₂O₄ MW: 296.29	
CL000190	Linezolid Impurity- (5S)-3-(3-fluoro-4-morpholin-4-ylphenyl)-5-(hydroxymethyl)-1,3-oxazolidin-2-one (stage-II)		MF: C₁₄H₁₇FN₂O₄ MW: 296.29	
CL000191	Linezolid Impurity- [(5R)-3-(3-fluoro-4-morpholin-4-ylphenyl)-2-oxo-1,3-oxazolidin-5-yl]methyl methanesulfonate		MF: C₁₅H₁₉FN₂O₆S MW: 374.38	
CL000192	Linezolid Impurity- 1-{[(5R)-3-(3-fluoro-4-morpholin-4-ylphenyl)-2-oxo-1,3-oxazolidin-5-yl]methyl}triaz-1,2-dien-2-ium		MF: C₁₄H₁₇FN₅O₃ MW: 322.31	
CL000193	Linezolid Impurity- (5R)-5-(aminomethyl)-3-(3-fluoro-4-morpholin-4-ylphenyl)-1,3-oxazolidin-2-one		MF: C₁₄H₁₈FN₃O₃ MW: 295.31	
	Levetiracetam			

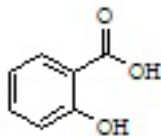
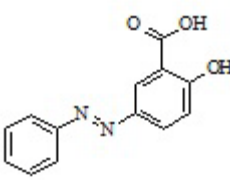
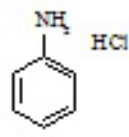
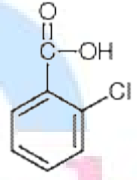
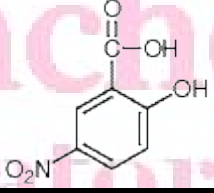
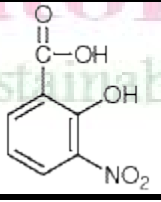
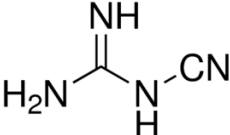
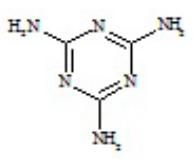
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000194	Levetiracetam working std.			
	Linagliptin			
CL000195	3-fluoroaniline		372-19-0	
	Loperamide			
CL000196	Loperamide Impurity-C 4-(4-chlorophenyl)piperidin-4-ol		CAS:39512-49-7 MF:C11H14ClNO MW:211.69	
CL000197	Furarium Bromide		MF:C4H5BrO MW:148.9859	
	Losartan potassium			
CL000198	Losartan potassium USP		CAS: 124750-99-8 C22H22ClN6O.K MW: 421.9139.10	
	Luliconazole			
CL000199	Luliconazole working std. (2E)-[(4R)-4-(2,4-Dichlorophenyl)-1,3-dithiolan-2-ylidene](1H-imidazol-1-yl)acetonitrile		CAS: 187164-19-8 MW: 354.28	
	Meclozine			
CL000200	Meclozine Impurity-B (EP) 4-Chloro Benzhydrol		MF: C13H11ClO MW: 218.69	

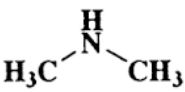
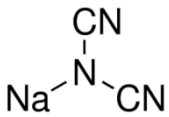
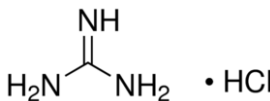
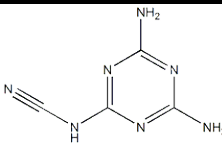
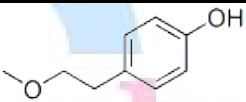
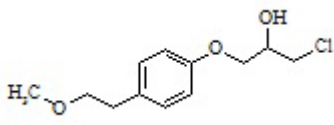
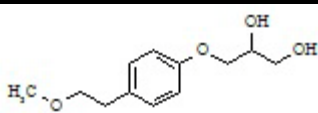
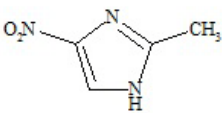
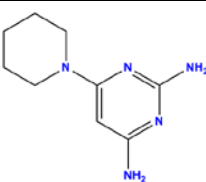
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Mefenamic Acid			
CL000201	Mefenamic Acid Impurity-E N-(2,3-dimethyl) Phenyl aniline; Flufenamic Acid		CAS:4869-11-8 M.F.: C ₁₄ H ₁₅ N M.W.: 197.28	
CL000202	Mefenamic Acid Impurity-C 2-Chlorobenzoic Acid		CAS:118-91-2 MF:C ₇ H ₅ Cl O ₂ MW:156.57	
	Meloxicam			
CL000203	Meloxicam working Std. 4-hydroxy-2-methyl-N-(5-methyl-2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide-1,1-dioxide		CAS:71125-38-7 MF:C ₁₄ H ₁₃ N ₃ O ₄ S ₂ MW: 351.41	
	Mesalazine / Mesalamine			
CL000204	Mesalamine USP 5-Amino-2-hydroxybenzoic acid		CAS:89-57-6 MF:C ₇ H ₇ NO ₃ MW:153.14	
CL000205	Mesalazine Impurity-A 4-Aminophenol, p-Aminophenol, 4-Hydroxyaniline		CAS: 123-30-8 MF:H ₂ NC ₆ H ₄ OH MW:109.13	
CL000206	Mesalazine Impurity-C 2-Amino phenol		CAS:95-55-6 MF:C ₆ H ₇ NO MW:109.13	
CL000207	Mesalamine Impurity-F 3-Aminosalicylic Acid		CAS:570-23-0 MF:C ₇ H ₇ NO ₃ MW:153.14	
CL000208	Mesalamine Impurity-G 2,5-Dihydroxybenzoic Acid, DHB, Gentisic acid,		CAS: 490-79-9 MF: C ₇ H ₆ O ₄ MW: 154.12	

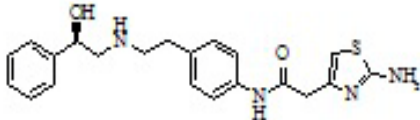
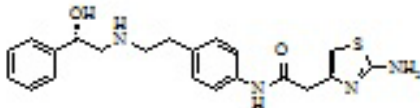
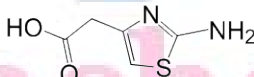
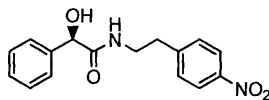
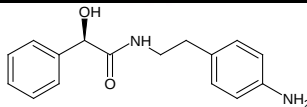
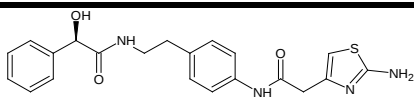
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Hydroquinonecarboxylic acid			
CL000209	Mesalamine Impurity-H		CAS:69-72-7 MF:C7H6O3 MW:138.12	
CL000210	Mesalamine Impurity-I 5-(phenylazo)salicylic acid		CAS:3147-53-3 MF:C13H10N2O3 MW: 242.24	
CL000211	Mesalamine Impurity-K Aniline		CAS:142-04-1 MF:C6H7N.HCl MW: 93.13 36.46	
CL000212	Mesalamine Impurity-L 2-Chlorobenzoic Acid		CAS:118-91-2 MF:C7H5ClO2 MW:156.57	
CL000213	Mesalamine Impurity-N (5-Nitrosalicylic Acid)		CAS No. 96-97-9 C7H5NO5 M.W. 183.12	
CL000214	Mesalamine Impurity (3-Nitrosalicylic Acid)		CAS:85-38-1 MF:C7H5NO5 MW:183.12	
	Metformin			
CL000215	Metformin Impurity-A 2-Cyanoguanidine 1-Cyanoguanidine (Dicyandiamide)		CAS:461-58-5 MF:C2H4N4 MW:84.08	
CL000216	Metformin Impurity-D Melamine 2,4,6-Triamino-1,3,5-triazine Monomer		CAS:108-78-1 MF:C3H6N6 MW:126.12	

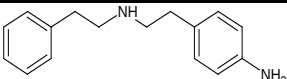
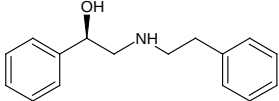
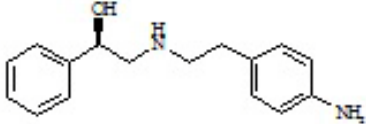
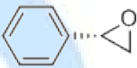
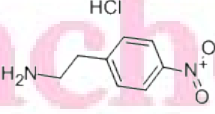
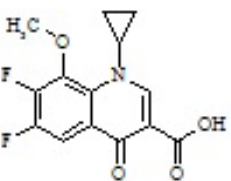
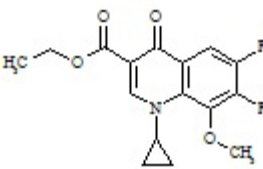
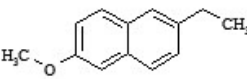
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000217	Metformin Impurity-F Methanamine, N-Methyl Methanamine, N,N-Dimethylamine		CAS:124-40-3 MF: C ₂ H ₇ N MW:45.08	
CL000218	Sodium Dicyanamide		CAS:1934-75-4 MF: C ₂ H ₃ Na MW:89.03	
CL000219	Guanidine . HCl Carbamimidoylazonium chloride		CAS:50-01-1 MF: CH ₅ N ₃ MW:95.53	
CL000220	Cyanomelamine Diamino-[1,3,5]triazin-2-yl)-carbamonitril, 2-Cyanamino-4,6,- diamino-1,3,5-triazin,		CAS:3496-98-8 MF: C ₄ H ₅ N ₇ MW:151.13	
	Metoprolol			
CL000221	Metoprolol Impurity-B p-(2-Methoxyethyl) phenol		CAS:56718-71-9 MF:C ₉ H ₁₂ O ₂ MW:152.19	
CL000222	Metoprolol Related Compound B		CAS:56718-76-4 MF:C ₁₂ H ₁₇ ClO ₃ MW:244.72	
CL000223	Metoprolol Impurity-D		CAS: MF: C ₁₂ H ₁₈ O ₄ MW:	
	Metronidazole			
CL000224	Metronidazole Impurity-A 2-Methyl 5-nitro imidazole		CAS No. 696-23-1 M.F.: C ₄ H ₅ N ₃ O ₂ M.W.: 127.10	
	Minoxidil			
CL000225	Minoxidil Impurity-E 6-(piperidin-1-yl)pyrimidine-2,4-diamine (desoxyminoxidil)		MF: C ₉ H ₁₅ N ₅ MW: 193.25	

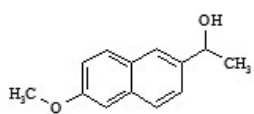
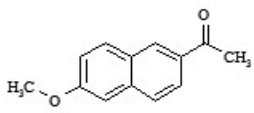
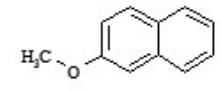
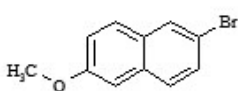
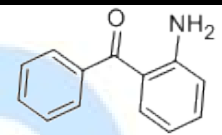
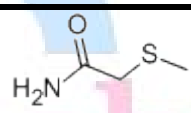
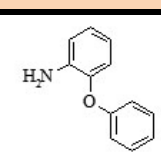
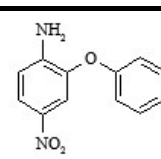
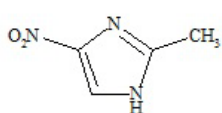
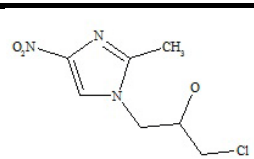
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

			Driving Sustainability	
	Mirabegron			
CL000226	Mirabegron working std. R-Isomer		CAS: MF: C21H24N4O2S MW: 396.52	
CL000227	(S - isomer)- Mirabegron Impurity-1 (TLC) Enantiomer 2-(2-amino-1,3-thiazol-4-yl)-N-(4-(2-[(2S)(2-hydroxy-2-phenylethyl)amino)ethyl]phenyl)]acetamide		MF: C21H24N4O2S MW: 396.51	
CL000228	Mirabegron Impurity-7 2-(2-aminothiazol-4-yl)acetic acid (ATAA)		CAS: 29676-71-9 MF: C5H6N2O2S MW: 158.18	
CL000229	Mirabegron Impurity-A (2R) -2 hydroxy-N [2,(4-nitrophenyl) ethyl]-2 phenyl ethanamide		CAS: 521284-19-5 MF: C16H16N2O4 MW: 300.31	
CL000230	Mirabegron Impurity-C (2R)-N-[2-(4-aminophenyl) ethyl]-2-hydroxy-2-phenyl acetamide		CAS: MF: C16H18N2O2 MW: 270.33	
CL000231	Mirabegron Impurity-D 2-(2-amino-1,3-thiazol-4-yl)-N-(4-(2-[(2R)(2-hydroxy-2-phenylethyl) amide)ethyl]phenyl)]acetamide		CAS: MF: C21H22N4O3S MW: 410.49	

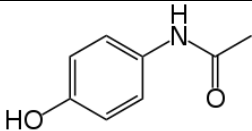
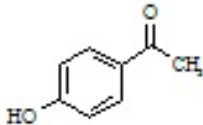
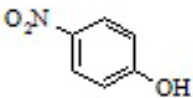
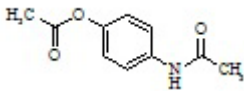
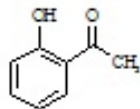
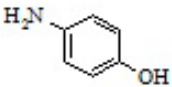
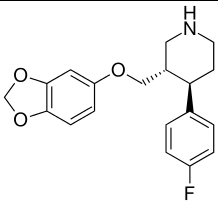
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000232	Mirabegron Impurity-F 4-{2-[(2-phenylethyl)amino]ethyl}aniline		CAS: MF: C ₁₆ H ₂₀ N ₂ MW: 240.34	
CL000233	Mirabegron Impurity-G 1R)-1-phenyl-2-[(2-phenylethyl)amino]ethanol hydrochloride		CAS: MF: C ₁₆ H ₁₉ NO MW: 241.33	
CL000234	Mirabegron Acetamide impurity			
CL000235	Mirabegron Impurity-6		CAS-521 284-22-0 M.F.: C ₁₆ H ₂₀ N ₂ O M.W.: 256.35	
CL000236	(R)-(+)-Styrene oxide		CAS: 20780-53-4 C ₈ H ₈ O 120.15	
CL000237	2-(4-Nitrophenyl)ethylamine hydrochloride		CAS:29968-78-3 MF:C ₈ H ₁₁ Cl N ₂ O ₂ MW: 202.64	
	Moxifloxacin			
CL000238	Moxifloxacin Impurity (1-Cyclopropyl-6,7-Difluoro-8-Methoxy-4-Oxo-1,4-Dihydroquinoline-3-Carboxylic Acid)		CAS:112811-72-0 MF: C ₁₄ H ₁₁ F ₂ N O ₄ MW: 295.24	
CL000239	Moxifloxacin Impurity (8-Methoxy Quinolonic Ethyl Ester)		CAS: 112811-71-9 M.F.: C ₁₆ H ₁₅ F ₂ N O ₄ MW: 323.30	
	Naproxen			
CL000240	Naproxen Impurity-J (EP)		CAS: MF: MW:	

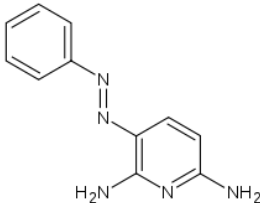
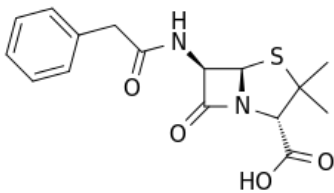
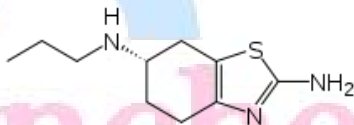
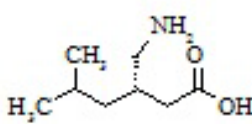
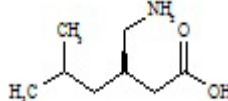
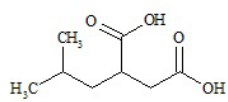
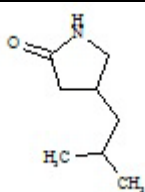
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000241	Naproxen Impurity-K (EP)		CAS: MF: MW:	
CL000242	Naproxen Impurity-L (EP)		CAS: MF: MW:	
CL000243	Naproxen Impurity-M (EP)		CAS: MF: MW:	
CL000244	Naproxen Impurity-N (EP)		CAS: MF: MW:	
	Nepafenac			
CL000245	2- Amino benzophenone		2835-77-0 C13H11NO 197.23	
CL000246	2-methyl sulphonyl acetamide / 2-(Methylthio)acetamide		CAS:22551-24-2 MF:C3H7NO S MW:105.16	
	Nimesulide			
CL000247	Nimesulide Impurity-C 2-phenoxyaniline,		MF:C12H11NO MW:185.23	
CL000248	Nimesulide Impurity-D 4-nitro-2-phenoxyaniline		MF:C12H10N2O3 M.W.: 230.23	
	Ornidazole			
CL000249	Ornidazole Impurity B 2-Methyl 5-nitro imidazole		CAS No. 696-23-1 M.F.: C4H5N3O2 M.W.: 127.10	
CL000250	Ornidazole Impurity D		M.F.: C7H10ClN3O 3 M.W.: 219.63	

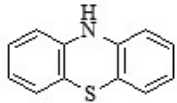
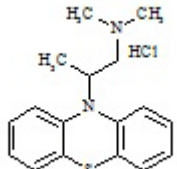
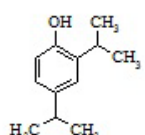
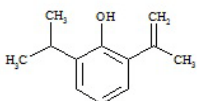
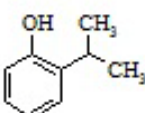
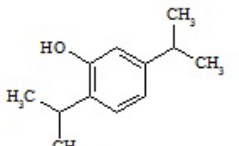
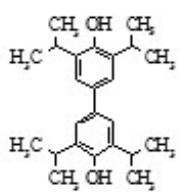
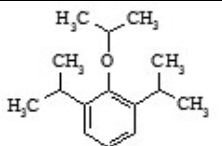
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Paracetamol (Acetaminophen)			
CL000251	Paracetamol working std.		CAS:103-90-2 MF:C ₈ H ₉ NO ₂ MW:151.16	
CL000252	Paracetamol Impurity-E		CAS: 99-93-4 MF:C ₈ H ₈ O ₂ MW:136.15	
CL000253	Acetaminophen Impurity-F Paracetamol Impurity-F		CAS:100-02-7 MF:C ₆ H ₅ NO ₃ MW:139.11	
CL000254	Acetaminophen Impurity H Paracetamol Impurity-H		CAS:2623-33-8 MF:C ₁₀ H ₁₁ NO ₃ MW:193.20	
CL000255	Paracetamol Impurity-I		CAS:118-93-4 MF:C ₈ H ₈ O ₂ MW:136.15	
CL000256	Acetaminophen Impurity K Paracetamol Impurity-K		CAS:123-30-8 MF:C ₆ H ₇ NO MW:109.13	
	Paroxetine			
CL000257	Paroxetine working std. - USP (3S,4R)-3-[(2H-1,3-benzodioxol-5-yloxy)methyl]-4-(4-fluorophenyl)piperidine			
CL000258	Paroxetine carbamate			
CL000259				
CL000260				
CL000261				
CL000262				
	Phenazopyridine			

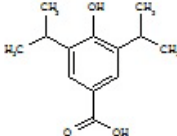
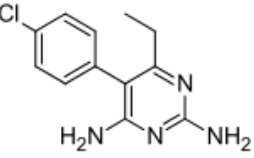
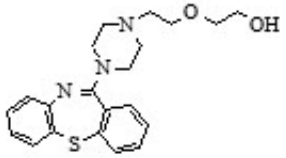
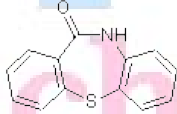
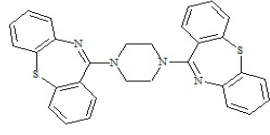
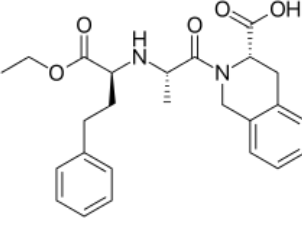
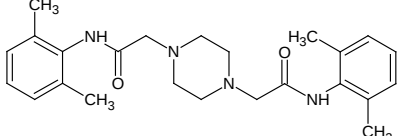
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000263	Phenazopyridine working std. 3-phenyldiazenylpyridine-2,6-diamine		CAS :94-78-0 MF: C ₁₁ H ₁₁ N ₅ MW: 213.25	
	Penicillin			
CL000264	Penicillin-G potassium salt Working std. (2S,5R,6R)-3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid		CAS:69-57-8 MF: C ₁₆ H ₁₈ N ₂ O ₄ S MW: 334.4	
	Pramipexole			
CL000265	Pramipexole working std. (S)-N ⁶ -propyl-4,5,6,7-tetrahydro-1,3-benzothiazole-2,6-diamine		CAS:104632-26-0 MF: C ₁₀ H ₁₇ N ₃ S MW:211.32	
	Pregabalin			
CL000266	Pregabalin working std. (S)-3-(Aminomethyl)-5-methylhexanoic acid		CAS No. 148553-50-8 M.F.: C ₈ H ₁₇ NO ₂ M.W.: 159.23	
CL000267	Pregabalin R- isomer (Other isomer)		CAS No. 148553-51-9 M.F.: C ₈ H ₁₇ NO ₂ M.W.: 159.23	
CL000268	Pregabalin diacid Impurity		CAS No. M.F.: C ₈ H ₁₄ O ₄ M.W.: 174.20	
CL000269	Pregabalin Lactum Impurity		CAS No. 61312-87-6 M.F.: C ₈ H ₁₅ NO M.W.: 141.21	

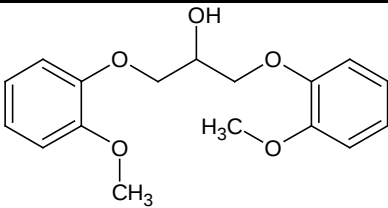
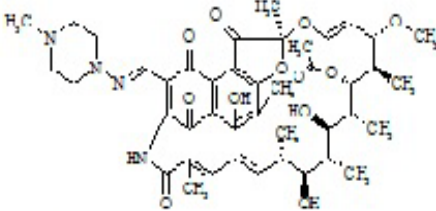
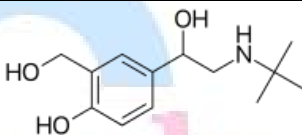
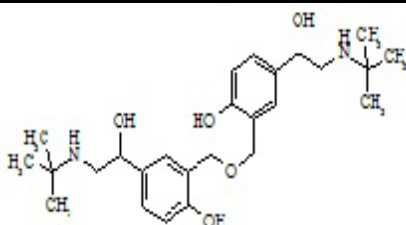
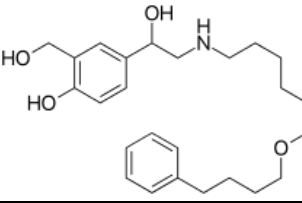
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Promethazine			
CL000270	Promethazine Impurity-A Phenothiazene		CAS: 92-84-2 M.F.: C ₁₂ H ₉ NS M.W.: 199.28	
CL000271	Promethazine Impurity-B Isopromethazine		CAS:5568-90-1 M.F.: C ₁₇ H ₂₀ N ₂ S HCl M.W.: 284.43 36.46	
	Propofol			
CL000272	Propofol Impurity-A 2,4-bis(1-methylethyl)phenol		M.F.: C ₁₂ H ₁₈ O M.W.: 178.28	
CL000273	Propofol Impurity-B 2-(1-methylethenyl)-6-(1-methylethyl)phenol		M.F.: C ₁₂ H ₁₆ O M.W.: 176.26	
CL000274	Propofol Impurity-C 2-(1-methylethyl)phenol		M.F.: C ₉ H ₁₂ O M.W.: 136.20	
CL000275	Propofol Impurity-D 2,5-bis(1-methylethyl)phenol		M.F.: C ₁₂ H ₁₈ O M.W.: 178.28	
CL000276	Propofol Impurity-E 3,3',5,5'-tetrakis(1-methylethyl)biphenyl-4,4'-diol		M.F.: C ₂₄ H ₃₄ O ₂ M.W.: 354.54	
CL000277	Propofol Impurity-G 2-(1-methylethoxy)-1,3-bis(1-methylethyl)benzene		M.F.: C ₁₅ H ₂₄ O M.W.: 220.36	

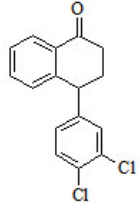
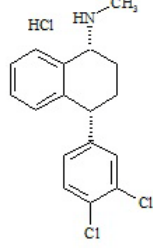
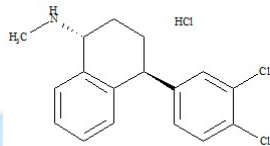
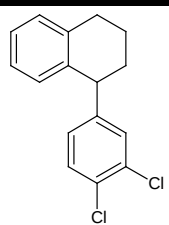
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000278	Propofol Impurity-N 4-hydroxy-3,5-bis(1-methylethyl)benzoic acid		M.F.: C ₁₃ H ₁₈ O ₃ M.W.: 222.29	
.				
.	Pyrimethamine			
CL000279	Pyrimethamine working std. USP 5-(4-chlorophenyl)-6-ethyl- 2,4-pyrimidinediamine		CAS:58-14-0 MF: C ₁₂ H ₁₃ ClN ₄ MW:248.71	
.				
.	Quetapine			
CL000280	Quetiapine working std.- USP		CAS.: 111974-69-7 MF: C ₂₁ H ₂₅ N ₃ O ₂ S MW: 383.52	
CL000281	Dibenzo[b,f][1,4]thiazepin-11(10H)-one		3159-07-7 C ₁₃ H ₉ NOS 227.28	
CL000282	Quetiapine Impurity-D Quetiapine Dimer Impurity		CAS No. 945668-94-0 M.F.: C ₃₀ H ₂₄ N ₄ S ₂ M.W.: 504.68	
CL000283	Quetiapine N-oxide			
.				
.	Quinapril			
CL000284	Quinapril . HCl working std. - USP (3S)-2-[(2S)-2-[(2S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl]amino]propanoyl]-3,4-dihydro-1H-isoquinoline-3-carboxylic acid		CAS:82586-55-8 MF:C ₂₅ H ₃₀ N ₂ O ₅ .HCl MW: 474.99	
.				
.	Ranolazine			
CL000285	Ranolazine Impurity-A			
CL000286	Ranolazine Impurity-B			

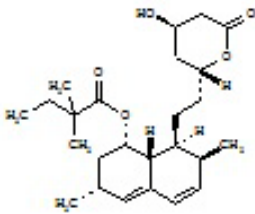
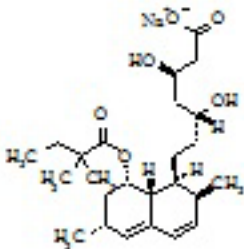
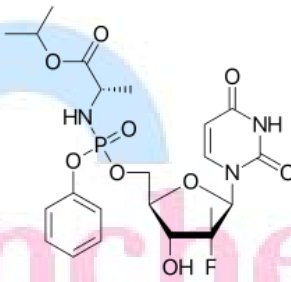
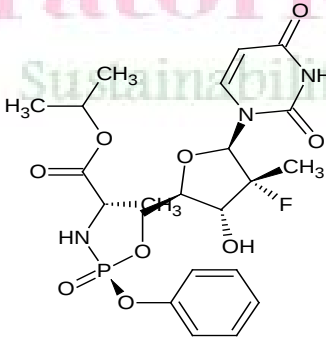
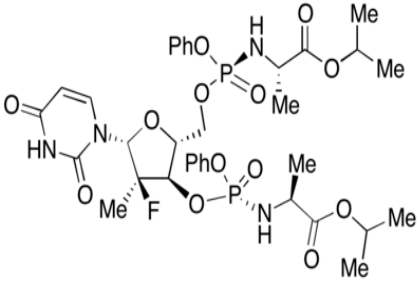
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000287	Ranolazine Impurity-C 1,3-bis(2-methoxyphenoxy)propan-2-ol			
.				
.	Rifampicin			
CL000288	Rifa Hydrazone			
CL000289	Rifampicin quinone		CAS:13983-13-6 MF:C43H56N4O12 MW:820.95	
.				
.	Salbutamol Sulphate			
CL000290	Salbutamol Sulphate working std. (RS)-4-[2-(tert-Butylamino)-1-hydroxyethyl]-2-(hydroxymethyl)phenol		CAS:18559-94-9 MF:C13H21NO3 MW: 239.31	
CL000291	Salbutamol Impurity-F (1RS)-2-[benzyl(1,1-dimethylethyl)amino]-1-[4-hydroxy-3-(hydroxymethyl)phenyl]ethanol / Salbutamol Dimer Ether		CAS: MF:C26H40N2O5 MW: 460.62	
.				
.	Salmeterol			
CL000292	Salmeterol Xinafoate (RS)-2-(hydroxymethyl)-4-{1-hydroxy-2-[6-(4-phenylbutoxy)hexylamino]ethyl}phenol		CAS:89365-50-4 MF:C25H37NO4 MW:415.57	
.				
.	Sertraline HCl			

PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000293	Tetralone Impurity		MF: C ₁₆ H ₁₂ Cl ₂ O MW: 291.18	
CL000294	Sertraline Enantiomer Cis- isomer (1R,4R) – Impurity-G		CAS No. 79645-15-1 MF: C ₁₇ H ₁₇ Cl ₂ N. HCl MW: 306.24 36.46	
CL000295	Sertraline Trans isomer (Racemic) (1R, 4S)-trans- Sertraline HCl (Crude) Trans:Cis:Tetralone 59:33:3		CAS No. 79836-45-6 MW: C ₁₇ H ₁₇ Cl ₂ N. HCl MW: 306.24 36.46	
CL000296	(1S,4R)-Trans Sertraline HCl (Racemic) (Crude) Trans:Cis:Tetralone 59:33:3		CAS No. M.F.: C ₁₇ H ₁₇ Cl ₂ N . HCl M.W.: 306.24 36.46	
CL000297	Sertraline HCl- Polymorph Form-I reference std.			
CL000298	Sertraline HCl- Polymorph Form-II reference std.			
CL000299	Sertraline mandalate			
CL000300	Sertraline impurity-1 1-(3,4-dichlorophenyl)- 1,2,3,4- tetrahydronaphthalene		MF: C ₁₆ H ₁₄ Cl ₂ MW: 277.19	
	Simvastatin			

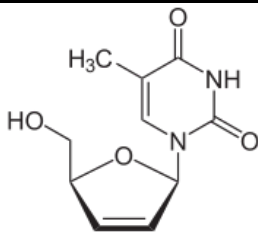
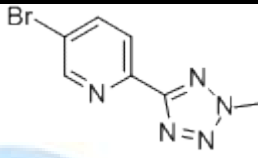
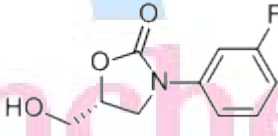
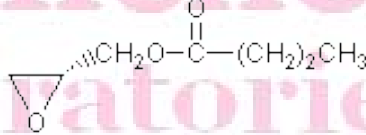
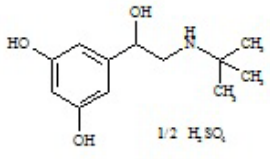
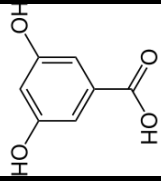
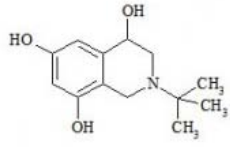
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000301	Simvastatin working std.		CAS:79902-63-9 MF:C ₂₅ H ₃₈ O ₅ MW: 418.58	
CL000302	Simvastatin Impurity- Simvastatin Hydroxy acid Na salt		CAS:101314-97-0 MF:C ₂₅ H ₃₉ O ₆ . Na MW:435.59 22.99	
	Sofosbuvir			
CL000303	Sofosbuvir working std. Form-VI Isopropyl (2S)-2-[[[(2R,3R,4R,5R)-5-(2,4-dioxypyrimidin-1-yl)-4-fluoro-3-hydroxy-4-methyl-tetrahydrofuran-2-yl]methoxy-phenoxy-phosphoryl]amino]propanoate		CAS:1190307-88-0 MF:C ₂₂ H ₂₉ FN ₃ O ₉ P MW:529.45	
CL000304	Sofosbuvir- D-Isomer			
CL000305	Sofosbuvir Impurity- RP-Isomer of Sofosbuvir		CAS: MF:C ₂₂ H ₂₉ FN ₃ O ₉ P MW:529.45	
CL000306	Sofosbuvir Dimer (2S)-Isopropyl 2-((((2R,3R,4R,5R)-5-(2,4-Dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-2-(((R)-((S)-1-isopropoxy-1-oxopropan-2-yl)amino)(phenoxy)phosphoryl)oxy)methyl)-4-methyltetrahydrofuran-		CAS:1337482-17-3 MF:C ₃₄ H ₄₅ FN ₄ O ₁₃ P ₂ MW:798.68	

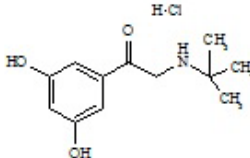
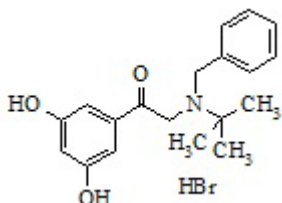
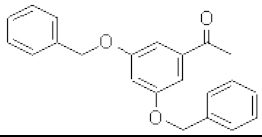
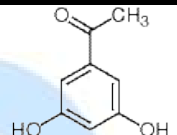
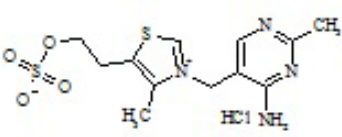
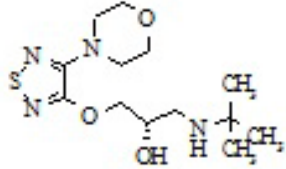
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	3-yl)oxy)(phenoxy)phosphoryl)amino)propanoate			
CL000307	(2R)-2-Deoxy-2-fluoro-2-methyluridine Intermediate-I (Stage-V) 1-[(2R,3R,4R,5R)-3-fluoro-4-hydroxy-5-(hydroxymethyl)-3-methyloxolan-2-yl]pyrimidine-2,4-dione		CAS:863329-66-2 MF: C ₁₀ H ₁₃ FN ₂ O ₅ MW:260.22	
CL000308	Intermediate-II N-[(S)-(2,3,4,5,6-pentafluorophenoxy)phenoxyphosphinyl]-L-alanine 1-Methylethyl ester		CAS: 1334513-02-8 MF: C ₁₈ H ₁₇ F ₅ N O ₅ P MW:453.30	
CL000309	(2'R)-N-Benzoyl-2'-deoxy-2'-fluoro-2'-Methylcytidine 3',5'-dibenzoate, Cytidine, St-III		CAS: 817204-32-3 MF: C ₃₁ H ₂₆ FN ₃ O ₇ MW:571.55	
CL000310	Stage-IV			
CL000311	Pentafluorophenol		CAS: 771-61-9 MF: C ₆ HF ₅ O MW: 184.06	
	Sotalol			
CL000312	Sotalol Impurity-B N-[4-[(1-methylethyl)amino]acetyl]phenyl]methanesulphonamide		CAS: 60735-85-5 MF: MW:	
	Stavudine			

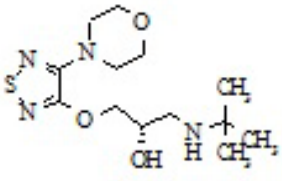
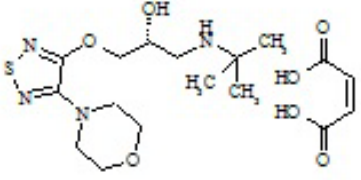
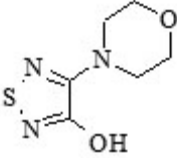
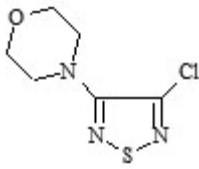
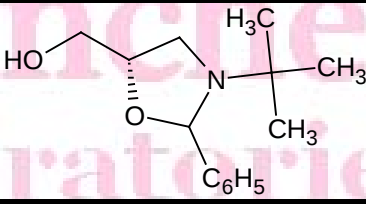
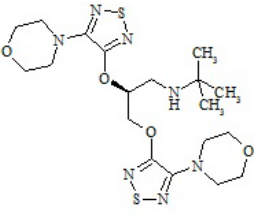
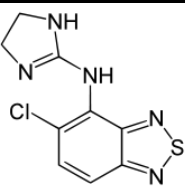
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000313	Stavudine working std. USP 1-[(2R,5S)-5-(hydroxymethyl)-2,5-dihydrofuran-2-yl]-5-methyl-1,2,3,4-tetrahydropyrimidine-2,4-dione		CAS:3056-17-5 MF:C ₁₀ H ₁₂ N ₂ O ₄ MW: 224.22	
	Tadalafil			
CL000314				
	Tedizolid			
CL000315	Tedizolid Impurity-5-BROMO-2-(2-METHYL-2H-TETRAZOL-5-YL)-PYRIDINE		380380-64-3 C ₇ H ₆ BrN ₅	
CL000316	(R)-3-(3-Fluorophenyl)-5-hydroxymethyl-oxazolidin-2-one		149524-42-5 C ₁₀ H ₁₀ FO ₃ 211.19	
CL000317	(R)-Glycidyl Butyrate		60456-26-0 C ₇ H ₁₂ O ₃ 144.17	
	Terbutaline			
CL000318	Terbutaline Sulphate working std. (RS)-5-[2-(tert-butylamino)-1-hydroxyethyl]benzene-1,3-diol		CAS:23031-32-5 MF:C ₁₂ H ₁₉ NO _{3.5} H ₂ SO ₄ 4 MF:225.29 49.05	
CL000319	Terbutaline Impurity-A α-resorcylic acid, 3,5-Dihydroxy benzoic acid		CAS-99-10-5 MF: C ₇ H ₆ O ₄ MW:154.12	
CL000320	Terbutaline Impurity-B 2-(1,1-Dimethylethyl)-1,2,3,4-tetrahydro-4,6,8-Isoquinolinetriol Hydrochloride		CAS:153657-83-1 MF:C ₁₃ H ₁₉ NO ₃ M.W. 237.30	

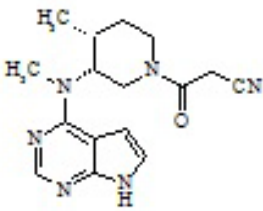
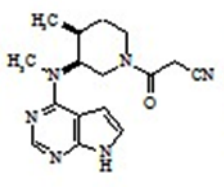
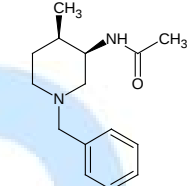
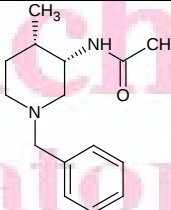
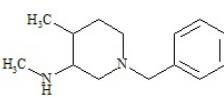
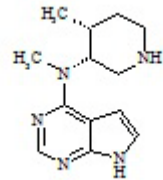
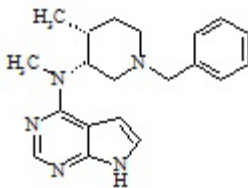
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000321	Terbutaline Impurity-C Terbutalone 1-(3,5-dihydroxyphenyl)- 2-[(1,1- dimethylethyl) amino]-ethanone		CAS:1246815 -70-2 MF:C12H17 NO3 HCl MW: 223.27 36.46	
CL000322	Terbutaline Impurity-D (2-[benzyl-(1,1- dimethylethyl) amino]-1- (3,5-dihydroxyphenyl) ethanone) HBr		CAS: 94109- 61-2 MF:C19H23 NO3 MW: 313.40	
CL000323	Terbutaline Impurity 3,5-Dibenzoyloxy Acetophenone		CAS:28924- 21-2 MF:C22H20O3 MW: 332.39	
CL000324	3',5'-Dihydroxy acetophenone 5-Acetylresorcinol		CAS: 51863- 60-6 MF: C8H8O3 MW:152.15	
	Thiamine			
CL000325	Thiamine HCl working std. 3-((4-Amino-2-methyl- 5-pyrimidinyl)methyl)- 5-(2-hydroxyethyl)-4- methylthiazolium chloride		CAS:67-03-8 MF:C12H17 N4OS Cl HCl MW: 265.36 35.45 36.46	
CL000326	Thiamine Impurity-A Thiamine O-sulphate		CAS:2380-61- 2 (FB) M.F.: C12H16N4O4 S2. HCl M.W.: 344.41 36.46	
	Timolol Maleate			
CL000327	Timolol working std.- EP		CAS: 26839- 75-8 MF: C13H24N4O3 S MW: 316.43	

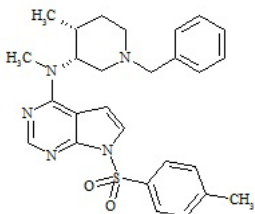
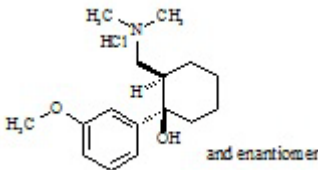
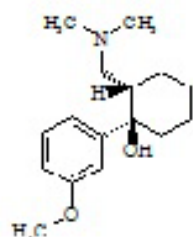
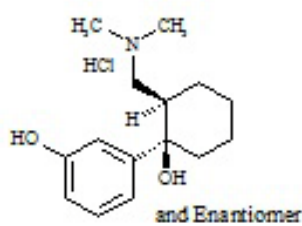
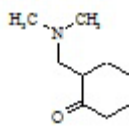
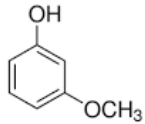
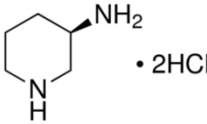
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000328	Timolol working std.-USP		CAS: 26839-75-8 MF: C ₁₃ H ₂₄ N ₄ O ₃ S S MW: 316.43	
CL000329	Timolol Impurity-A (R)-Timolol		CAS: 26839-77-0 MF: C ₁₃ H ₂₄ N ₄ O ₃ S C ₄ H ₄ O ₄ MW: 316.43	
CL000330	Timolol Impurity-D		CAS: M.F.: C ₆ H ₉ N ₃ O ₂ S M.W.: 187.22	
CL000331	Timolol Impurity-F (3-Chloro-4-morpholino-1,2,5-Thiadiazole)		CAS: 30165-96-9 M.F.: C ₆ H ₈ ClN ₃ OS M.W.: 205.67	
CL000332	5-(Hydroxymethyl)-2-phenyl-3-tertbutyl-1,3-oxazole			
CL000333	Timolol Impurity-C		CAS 1391068-18-0 MF: C ₁₉ H ₃₁ N ₇ O ₄ S ₂ MW: 485.63	
	Tizanidine.HCL			
CL000334	Tizanidine.HCl working std. 5-chloro-N-(4,5-dihydro-1H-imidazol-2-yl)benzo[c][1,2,5]thiadiazol-4-amine		CAS:51322-75-9 MF: C ₉ H ₈ ClN ₅ S. HCl MW: 290.17	
	Tofacitinib			

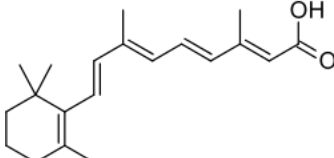
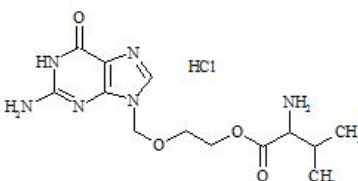
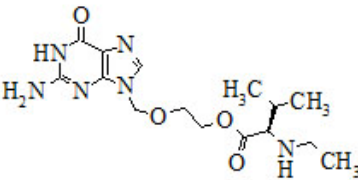
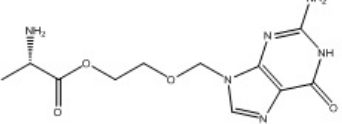
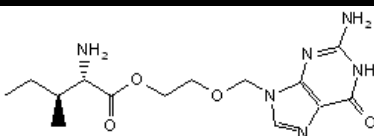
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000335	Tofacitinib working standard 3-[(3R,4R)-4-methyl-3-[methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino]piperidin-1-yl]-3-oxopropanenitrile		CAS:540737-29-9 MF: C ₁₆ H ₂₀ N ₆ O. C ₆ H ₈ O ₇ MW: 312.38 192.13	
CL000336	Tofacitinib - S,S-isomer (Other Isomer) 3-[(3S,4S)-4-methyl-3-[methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino]piperidin-1-yl]-3-oxopropanenitrile		CAS:1092578-47-6 (free base) MF: C ₁₆ H ₂₀ N ₆ O. C ₆ H ₈ O ₇ MW: 312.38	
CL000337	R,R-Isomer of DTTA salt 3-[(3R,4R)-4-methyl-3-[methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino]piperidin-1-yl]-3-oxopropanenitrile		MF: C ₁₅ H ₂₂ N ₂ O MW:246.34	
CL000338	S,S- isomer (DTTA salt) (Other Isomer) 3-[(3S,4S)-4-methyl-3-[methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino]piperidin-1-yl]-3-oxopropanenitrile		MF: C ₁₅ H ₂₂ N ₂ O MW:246.34	
CL000339	Racemic amine (Four isomer)		CAS: 384338-23-2 MF: C ₁₄ H ₂₂ N ₂ MW: 218.34	
CL000340	Tofacitinib Impurity-M (Debenzylated)		CAS: 477600-74-1 MF: C ₁₃ H ₁₉ N ₅ MW: 245.33	
CL000341	Tofacitinib Impurity- O (Detosylated)		CAS No. N/A MF: C ₂₀ H ₂₅ N ₅ MW: 335.46	

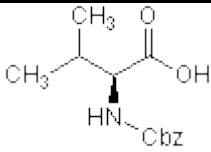
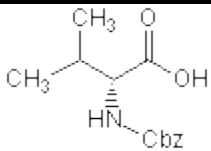
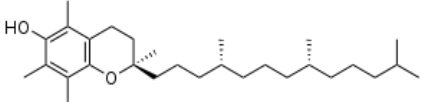
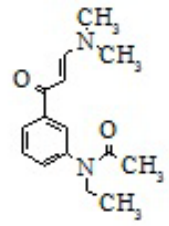
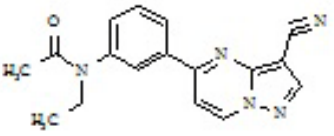
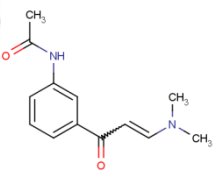
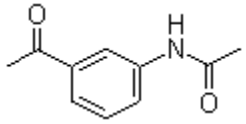
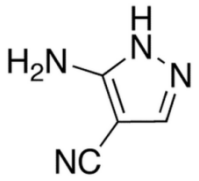
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000342	Tofacitinib Impurity-Couple		MF: C ₂₇ H ₃₁ N ₅ O ₂ S M W: 489.64	
	Tramadol			
CL000343	Tramadol Nitrate working std.		CAS: 36282-47-0 MF: C ₁₆ H ₂₅ NO ₂ MW: 263.38	
CL000344	Tramadol Impurity-A (1RS,2SR)-2-[(dimethylamino)methyl]-1-(3-methoxyphenyl)cyclohexanol		CAS: 152538-36-8 M.F.: C ₁₆ H ₂₅ NO ₂ M.W.: 263.38	
CL000345	Tramadol Impurity-D (O-Desmethyl Tramadol) (1RS,2RS)-2-[(dimethylamino)methyl]-1-(3-hydroxyphenyl)cyclohexanol HCl (Racemic, Tramadol)		CAS: 185453-02-5 M.F.: C ₁₅ H ₂₃ NO ₂ HCl M.W.: 249.36 36.46	
CL000346	Tramadol Impurity-E (2RS)-2-[(dimethylamino)methyl]cyclohexanone		CAS: M.F.: C ₉ H ₁₇ NO M.W.: 155.24	
CL000347	3-Methoxyphenol		CAS: 150-19-6 M.F: C ₇ H ₈ O ₂ M.W: 124.14	
	Trelagliptin			
CL000348	(R)-(-)-3-Aminopiperidine dihydrochloride		CAS: 334618-23-4 MF: C ₅ H ₁₂ N ₂ · 2HCl	

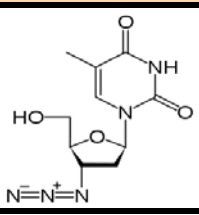
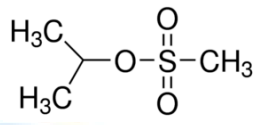
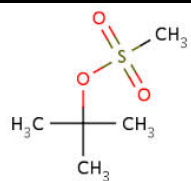
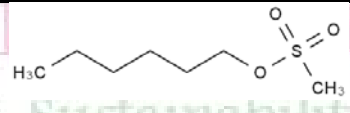
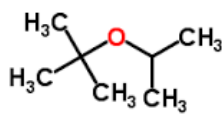
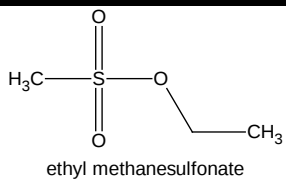
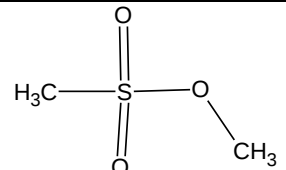
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

			MW:173.08	
	Tretinoin			
CL000349	Tretinoin working std.-USP Retinoic acid; ATRA; Vitamin A acid; all-trans-Retinoic acid; (2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohexen-1-yl)nona-2,4,6,8-tetraenoic acid		CAS-302-79-4 MF: C ₂₀ H ₂₈ O ₂ MW:300.44	
	Valacyclovir			
CL000350	Valcyclovir working std.		M.F.: C ₁₃ H ₂₀ N ₆ O ₄ HCl M.W.: 324.34 36.46	
CL000351	Valcyclovir Impurity-D		M.F.: C ₁₅ H ₂₄ N ₆ O ₄ M.W.: 352.40	
CL000352	Valacyclovir L-alaninate Valaciclovir Impurity-H 9-[(2-Hydroxyethoxy)methyl]guanine L-alaninate, 2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl L-alaninate		CAS: 84499-64-9 MF:C ₁₁ H ₁₆ N ₆ O ₄ MW:296.28	
CL000353	Acyclovir L-isoleucinate Valacyclovir Impurity-J L-Isoleucine 2-[(2-AMino-1,6-dihydro-6-oxo-9H-purin-9-yl)Methoxy]ethyl Ester		CAS:142963-63-1 MF:C ₁₄ H ₂₂ N ₆ O ₄ MW:338.36	

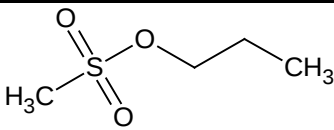
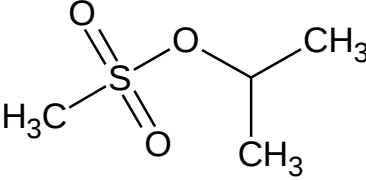
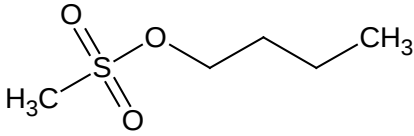
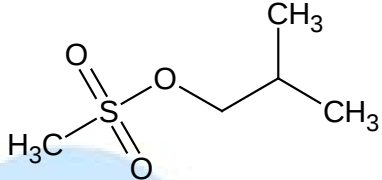
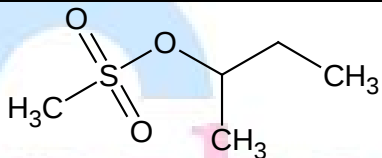
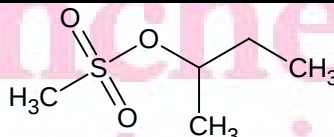
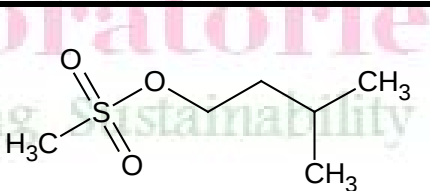
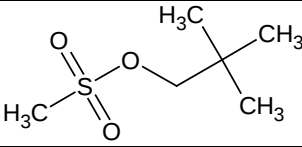
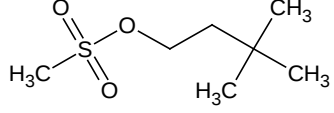
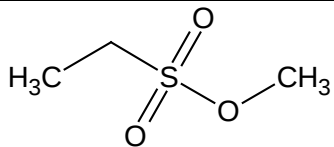
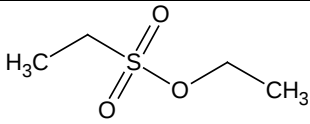
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

CL000354	Carbobenzyloxy-L-valine		CAS: 1149-26-4 MF: C ₁₃ H ₁₇ N O ₄ MW: 251.28	
CL000355	N-Carbobenzyloxy-D-valine		CAS: 1685-33-2 MF: C ₁₃ H ₁₇ N O ₄ MW: 251.28	
	Vitamin-E			
CL000356	Vitamin-E 50% powder			
CL000357	Alfa Tocopherol (d-isomer) - USP			
	Zaleplon			
CL000358	Zaleplon Impurity-A		CAS: 96605-66-2 MF: C ₁₅ H ₂₀ N ₂ O ₂ MW: 260.34	
CL000359	Zaleplon Impurity-B		MF: C ₁₇ H ₁₅ N ₅ O MW: 305.34	
CL000360	N-[3-(3-Dimethylaminoacryloyl)phenyl]acetamide		CAS: 96605-61-7 MF: C ₁₃ H ₁₆ N ₂ O ₂ MW: 232.28	
CL000361	N-(3-Acetylphenyl)acetamide / 3'-Acetylacetanilide		CAS: 7463-31-2 MF: C ₁₀ H ₁₁ NO ₂ MW:	
CL000362	3-AMINO-4-CYANO PYRAZOLE; 3-Aminopyrazole-4-carbonitrile; 3-Amino-1H-pyrazole-4-carbonitrile		CAS: 16617-46-2 MF: C ₄ H ₄ N ₄ MW: 108.1	

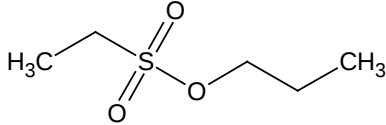
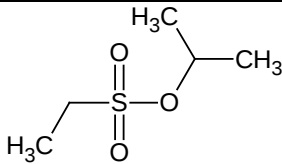
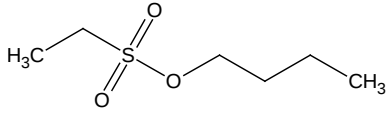
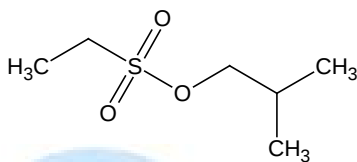
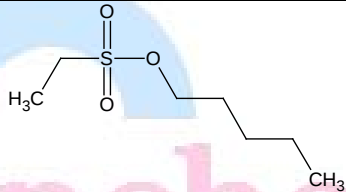
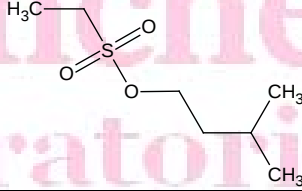
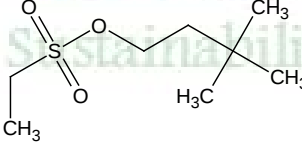
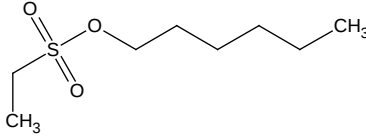
PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites

	Zidovudine			
CL000363	Zidovudine working std BP		CAS:30516-87-1 MF:C10H13N5O4 MW: 267.25	
Genotoxic Impurities				
CL000364	Isopropyl Methanesulfonate; Methanesulfonic Acid Isopropyl Ester		CAS: 926-06-7 MF: C ₄ H ₁₀ O ₃ S MW:138.18	
CL000365				
CL000366	Tert-butyl methanesulfonate; Methanesulfonic acid tert-butyl ester, 2-methyl-2-methylsulfonyloxypropane		CAS:16427-41-1 MF: C ₅ H ₁₂ O ₃ S MW:152.21	
CL000367				
CL000368	Hexyl Methanesulfonate; Methanesulfonic Acid Hexyl Ester		CAS:16156-50-6 MF: C ₇ H ₁₆ O ₃ S MW:180.26	
CL000369				
CL000370	Tert-Butyl isopropyl ether (TBIPE) Isopropyl tert-butyl ether, propane, 2-methyl-2-(1-methylethoxy)-		CAS:17348-59-3 MF:C7H16O MW:116.20	
CL000371	Ethyl methanesulfonate	 ethyl methanesulfonate	CAS: MF:C3H8O3S MW:124.18	
CL000372	Methyl methanesulfonate		CAS: MF:C2H6O3S MW:110.13	

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CL000373	propyl methanesulfonate		CAS: MF: C4H10O3S MW:138.18	
CL000374	propan-2-yl methanesulfonate		CAS: MF: C4H10O3S MW:138.1	
CL000375	Butyl methanesulfonate		CAS: MF:C5H12O 3S MW:152.21	
CL000376	2-methylpropyl methanesulfonate		CAS: MF: C5H12O 3S MW:152.21	
CL000377	butan-2-yl methanesulfonate		CAS: MF:C5H12O 3S MW:152.21	
CL000378	Pentyl methanesulfonate		CAS: MF:C6H14O 3S MW:166.23	
CL000379	3-methylbutyl methanesulfonate		CAS: MF:C6H14O 3S MW:166.23	
CL000380	2,2-dimethylpropyl methanesulfonate		CAS: MF:C6H14O 3S MW:166.23	
CL000381	3,3-dimethylbutyl methanesulfonate		CAS: MF:C7H16O 3S MW:180.26	
CL000382	Methyl ethanesulfonate		CAS: MF:C3H8O3 S MW:124.15	
CL000383	Ethyl ethanesulfonate		CAS: MF:C4H10O 3S MW:138.18	

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Impurity, Working standards and Metabolites

CL000384	Propyl ethanesulfonate		CAS: MF:C5H12O 3S MW:152.21	
CL000385	Propan-2-yl ethanesulfonate		CAS: MF:C5H12O 3S MW:152.21	
CL000386	Butyl ethanesulfonate		CAS: MF:C6H14O 3S MW:166.23	
CL000387	2-methylpropyl ethanesulfonate		CAS: MF:C6H14O 3S MW:166.23	
CL000388	pentyl ethanesulfonate		CAS: MF:C7H16O 3S MW:180.26	
CL000389	3-methylbutyl ethanesulfonate		CAS: MF:C7H16O 3S MW:180.26	
CL000390	2,2-dimethylpropyl ethanesulfonate		CAS: MF:C7H16O 3S MW:180.26	
CL000391	Hexyl ethanesulfonate		CAS: MF:C8H18O 3S MW:194.29	
CL000392			CAS: MF: MW:	
CL000393			CAS: MF: MW:	
CL000394			CAS: MF: MW:	
CL000395			CAS: MF: MW:	

PRODUCT LIST: 2016-2017
Impurity, Working standards and Metabolites



CL000396			CAS: MF: MW:	
CL000397			CAS: MF: MW:	
CL000398			CAS: MF: MW:	
CL000399			CAS: MF: MW:	
CL000400			CAS: MF: MW:	
CL000401			CAS: MF: MW:	
CL000402			CAS: MF: MW:	
CL000403			CAS: MF: MW:	



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