



Impurities / Related Substances in Pharmaceutical Substances / Products



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SPINCOTECH PVT LTD *R&D Centre* CHENNAI

Synthesis of
Pharmaceutical &
Non-Pharmaceutical
related substances,
impurities and
reference standards



Isolation of
unknown impurities,
degradation products &
formulation impurities
from drug substances
and drug products



Identification and
Characterisation of
unknown impurities
using LCMS, LCMSMS
and multi facets of
NMR analysis



Novel cost
effective process
development for API &
Key Starting Material
(KSM) and
Custom Synthesis



**Experts in Impurity Synthesis,
Isolation & Characterization**



'Spincotech Pvt Ltd' has been the preferred partner for the scientific community over the past 38 years in the field of analytical and life science instrumentations. "Customerization" is the cornerstone of our company's culture. The sustained support that Spinco inherited from the scientific community has enabled us to set up a 'state-of-art' R&D Centre, at Chennai (in the year 2014) and continue to provide 'Chemistry Solutions' to the Pharma world.

Spincotech R&D core services are:

- Synthesis of Pharmacopoeial / Non Pharmacopoeial related substances and impurities.
- Isolation of unknown impurities / degradation products / formulation impurities from drug substances and drug products.
- Identification and structure elucidation of unknown impurities including complex and chiral molecules using LC-MS, LC-MSMS and multi facets of NMR analysis.
- Novel cost effective process development for API and Key Starting Material (KSM).
- Custom Synthesis Materials.

Our R&D team is supported by a strong 'State-of-Art' facility at SIDCO, Alathur, Chennai offering time-bound delivery of the products along with complete analytical characterization report with raw data. Our R&D is equipped with sophisticated analytical tools like LC-MS (Shimadzu-Triple Quad Mass Spectrometer), HPLC & UFLC with UV-Vis/PDA/RI/FL Detectors, Flash Chromatography, Preparative-HPLC, GC, Polarimeter, etc.,

In this Brochure, you can quickly refer the essential information of the available impurities such as Name, Structure, Molecular Formula & Molecular mass.

Also, we are happy to inform you that, we have the impurities of current "STAR" molecules such as

- **Sugammadex Sodium: 31 Impurities**
- **Cyanocobalamin / Vitamin B12: 6 Impurities**
- **Levothyroxine Sodium: 35 Impurities**

Certificate of Analysis

Quality Certified

Quantity Certified



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 Web: www.spincotech.com

CERTIFICATE OF ANALYSIS

PRODUCT CEPHALEXIN DIKETOPIPERAZINE IMPURITY [[(S)-3-(hydroxymethyl)enol-6-phenylpiperazine-2,3-dione]	
BATCH No. : SRD086/CEP-IMPDKP-I-R3/004/0317	STRUCTURE
MFG. DATE : MAR-2017	
AR No. : SRD086/CEP-IMPDKP-I-R3/004/0317/AR17-1272	
DATE OF ANALYSIS : 22-03-2017	
RETEST DATE : 21-09-2017	
COMPENDIA : IN-HOUSE	
QUANTITY : 200mg	

S. No.	TESTS	SPECIFICATIONS	RESULTS
1	Description	Report the result	Off white solid
2	Identification by MS	The molecular mass of Cephalixin Diketopiperazine impurity should be confirmed as 218Da	Mass spectral data confirms the molecular mass of Cephalixin Diketopiperazine impurity as 218Da
3	Identification by ¹ H & ¹³ C NMR	The molecular structure of Cephalixin Diketopiperazine impurity should be confirmed by ¹ H & ¹³ C NMR spectra	¹ H & ¹³ C NMR spectra confirms the molecular structure of Cephalixin Diketopiperazine impurity
4	Purity by HPLC	For informative	98.15% Area

Storage: 2 to 8°C.

Remark: The material conforms with the above specifications.

Prepared by: *[Signature]* 24/03/2017
 Checked by: *[Signature]* 24/03/2017
 Approved by: *[Signature]* 24/03/2017

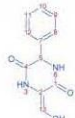
HD - 4, Vaidyanar Street, T. Nagar, Chennai 600 017, Tamil Nadu, India
 Email: info@spincotech.com

¹H & ¹³C NMR Spectral data

Conditions: 400MHz, DMSO

The structure of Cephalixin Diketopiperazine Impurity [SRD086/CEP-IMPDKP-I-R3/004/0317/AR17-1272] is confirmed with the signals of the ¹H & ¹³C spectra and their respective interpretation.

Cephalixin Diketopiperazine Impurity



C₁₁H₁₄N₂O₃
 Mol. Wt: 218 Da

The assignment of ¹H and ¹³C signal of Cephalixin Diketopiperazine Impurity

Position*	¹ H	¹ H (ppm)	Multiplicity	¹³ C (ppm)	¹³ C
1	—	—	—	161.423	C
2	—	—	—	109.653	C
3	1H	8.397	t	—	—
4	—	—	—	163.739	C
5	1H	6.961	s	59.546	CH
6	1H	8.290	s	—	—
7	—	—	—	136.343	C
8	2H	7.326-7.318	d	127.064	CH
9	1H	7.405-7.390-7.375	t	129.041	CH
10	1H	7.341-7.326-7.318	t	128.406	CH
11	1H	7.405-7.390-7.375	t	129.041	CH
12	1H	7.318-7.303	d	127.064	CH
13	1H	4.944-4.941	d	140.314	CH
14	1H	—	—	—	—

*Carbon and Hydrogen numbering: only for NMR spectral data assignment
 ** Not detected in ¹H NMR spectrum

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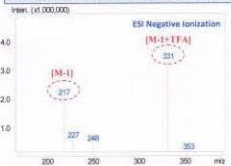
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Mass Spectral data

Method conditions: ESI 4.5kV Negative DI temperature 250°C

The molecular mass of Cephalixin Diketopiperazine Impurity [SRD086/CEP-IMPDKP-I-R3/004/0317] is confirmed as 218Da by the signals of ESI mass spectral data.

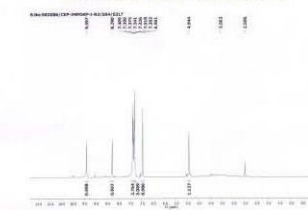
Mass spectrum of Cephalixin Diketopiperazine Impurity



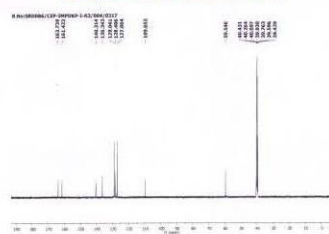
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¹H NMR spectrum of Cephalixin Diketopiperazine Impurity



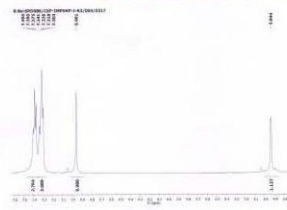
¹³C NMR spectrum of Cephalixin Diketopiperazine Impurity



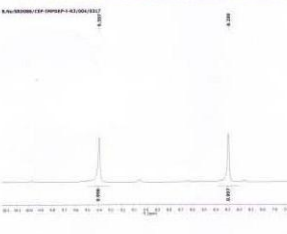
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¹H NMR spectrum of Cephalixin Diketopiperazine Impurity (Zoomed 1)



¹³C NMR spectrum of Cephalixin Diketopiperazine Impurity (Zoomed 2)



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Purity by HPLC

The purity of Cephalixin Diketopiperazine impurity is analysed by HPLC using In-House method

Purity : 98.15% Area

Attached the HPLC chromatogram

Blank

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 ALATHUR

Sample Information:
 Sample Name: Blank
 Sample ID: *[Signature]*
 Date Acquired: 24/03/2017

Method: *[Signature]*
 Date Acquired: 24/03/2017

LC Program	Unit	Component	Value	Comment
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	



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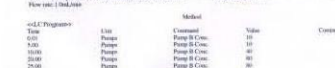
Cephalixin Diketopiperazine Impurity

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 ALATHUR

Sample Name: Cephalixin Diketopiperazine Impurity
 Sample ID: SRD086/CEP-IMPDKP-I-R3/004/0317
 Analytical Instrument: HPLC
 Data File Name: SRD086/CEP-IMPDKP-I-R3/004/0317
 Date Acquired: 24/03/2017

Mobile Phase: A: 0.01% TFA in Water
 Mobile Phase B: Acetonitrile
 Column: Shimadzu LC8T (150 x 4.6mm, 5µm) STRAILED-AC
 Analytical Software: Analyst 4.1

LC Program	Unit	Component	Value	Comment
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	
100	Flow	Flow Rate	1.0	



Peak No.	Retention Time (min)	Area	Area %	Name
1	10.00	100000	98.15	Cephalixin Diketopiperazine Impurity
2	11.00	1000	0.85	Impurity
Total		101000	100.00	

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S.No	API	Impurity Name	Compound ID
1	Aliskiren	Aliskiren Michael Adduct Impurity	SP-A1-101
2	Amoxicillin	Amoxicillin Impurity H	SP-A2-101
3	Amoxicillin	Amoxicillin Impurity L	SP-A2-102
4	Amoxicillin	Pivaloyl Impurity	SP-A2-103
5	Alosetron	Alosetron Impurity (MW: 311Da)	SP-A3-101
6	Apixaban	Apixaban Impurity A (MW: 460Da)	SP-A4-101
7	Apixaban	Apixaban Base degradent-1 (MW: 477Da)	SP-A4-102
8	Apixaban	Apixaban methyl ester Impurity	SP-A4-103
9	Apixaban	Apixaban Open Ring Impurity	SP-A4-104
10	Apixaban	Apixaban base degradent-2 (MW: 477Da)	SP-A4-105
11	Apixaban	Apixaban methyl ester des pentanoyl Impurity	SP-A4-106
12	Atorvastatin	Atorvastatin pyrrolidone analog	SP-A5-101
13	Atorvastatin	3-des hydroxy Atorvastatin	SP-A5-102
14	Atorvastatin	Atorvastatin epoxy tetrahydro furan analog	SP-A5-103
15	Atorvastatin	Atorvastatin epoxy pyrrolooxazin 7-hydroxy analog	SP-A5-104
16	Atorvastatin	Atorvastatin epoxy pyrrolooxazin 6-hydroxy analog	SP-A5-105
17	Atorvastatin	4R,6S Isomer of Atorvastatin	SP-A5-106
18	Atorvastatin	4S,6R Isomer of Atorvastatin	SP-A5-107
19	Atorvastatin	4S,6S Isomer of Atorvastatin	SP-A5-108
20	Apremilast	Apremilast 3-Acetamido phthalic acid Impurity	SP-A6-101
21	Apremilast	Apremilast EP Impurity H	SP-A6-102
22	Apremilast	Apremilast 3-Acetamido phthalimide ring open Isomer Impurity-1	SP-A6-103
23	Apremilast	Apremilast 3-Acetamido phthalimide ring open Isomer Impurity-2	SP-A6-104

S.No	API	Impurity Name	Compound ID
24	Apremilast	Apremilast 3-Amino phthalimide ring open Isomer Impurity-1	SP-A6-105
25	Apremilast	Apremilast 3-Amino phthalimide ring open Isomer Impurity-2	SP-A6-106
26	Albendazole	Albendazole EP Impurity H	SP-A7-101
27	Alanine	N-Methoxycarbonyl-L-Alanine	SP-A8-101
28	Aripiprazole	7-but-3-enyloxy-3,4-dihydro-1H-quinolin-2-one	SP-A9-101
29	Aripiprazole	1-but-3-enyl-4-(2,3-chloro-phenyl)-piperazine	SP-A9-102
30	Aripiprazole	Aripiprazole EP Impurity A	SP-A9-103
31	Aripiprazole	Aripiprazole EP Impurity D	SP-A9-104
32	Aripiprazole	7,7(butylenedioxy)-di-3,4-dihydroquinolin-2(1H)-one	SP-A9-105
33	Aripiprazole	Aripiprazole EP Impurity C. HCl	SP-A9-106
34	Aripiprazole	Aripiprazole EP Impurity F	SP-A9-107
35	Aripiprazole	Aripiprazole peroxide degradation impurity (MW: 480Da)	SP-A9-108
36	Aripiprazole	Aripiprazole peroxide degradation impurity (MW: 303Da)	SP-A9-109
37	Aripiprazole	Aripiprazole peroxide degradation impurity (MW: 464Da)	SP-A9-110
38	Aztreonam	Aztreonam Impurity J	SP-A10-101
39	Aztreonam	Aztreonam In-house Impurity 1	SP-A10-102
40	Aztreonam	Aztreonam Impurity 2	SP-A10-103
41	Aztreonam	Aztreonam Impurity I	SP-A10-104
42	Ampicillin	Ampicillin Impurity	SP-A11-101
43	Avanafil	Avanafil Isomer Impurity	SP-A12-101
44	Acyclovir	Acyclovir Impurity K / Valaciclovir EP Impurity L	SP-A13-101
45	Azelaic acid	Azelaic acid Impurity (MW: 246 Da)	SP-A14-101

S.No	API	Impurity Name	Compound ID
46	Azithromycin	Azithromycin Impurity F (USP/EP)	SP-A15-101
47	Azithromycin	Azithromycin Impurity M (USP/EP)	SP-A15-102
48	Albuterol	5 – hydroxy Albuterol	SP-A16-101
49	Bromocriptine	Bromocriptine Impurity (MW: 590.7 Da)	SP-B1-101
50	Bumetanide	4-phenoxy-3-(propylamino) 5-sulfamoyl benzoic acid	SP-B2-101
51	Bumetanide	Bumetanide EP Impurity D	SP-B2-102
52	Cetirizine	Cetirizine Impurity BHA	SP-C2-101
53	Cetirizine	Cetirizine Impurity B Ethyl ester	SP-C2-102
54	Cetirizine	Cetirizine Impurity BHT	SP-C2-103
55	Cetirizine	Cetirizine N-Oxide impurity	SP-C2-104
56	Clopidogrel	Clopidogrel Impurity A (EP/USP)	SP-C3-101
57	Cystamine	Cystamine Dihydrochloride	SP-C4-101
58	Cilastatin	Cilastatin Impurity E	SP-C5-101
59	Cilastatin	Cilastatin Impurity F	SP-C5-102
60	Canagliflozin	Canagliflozin Oxidative Impurity 1	SP-C6-101
61	Canagliflozin	Canagliflozin Oxidative Impurity 2	SP-C6-102
62	Canagliflozin	Canagliflozin Oxidative Impurity 3	SP-C6-103
63	Cephalexin	Cephalexin diketopiperazine Impurity	SP-C7-101
64	Cephalexin	Cephalexin S-Sulfoxide	SP-C7-102
65	Cephalexin	Cephalexin R-Sulfoxide	SP-C7-103
66	Cariprazine	Ethyl cis-2-4-aminocyclohexylacetate HCl	SP-C8-101
67	Cariprazine	Ethyl trans-2-4-aminocyclohexylacetate HCl	SP-C8-102

S.No	API	Impurity Name	Compound ID
68	Chlorthalidone	Chlorthalidone Impurity (MW: 367Da)	SP-C9-101
69	Cefazolin	Cefazolin Impurity	SP-C10-101
70	Clomiphene	(E) – Clomiphene Dimer Impurity	SP-C11-101
71	Dofetilide	Dofetilide Impurity A	SP-D2-101
72	Dofetilide	Dofetilide Impurity B	SP-D2-102
73	Doxylamine	Doxylamine Impurity 1	SP-D3-101
74	Dabigatran	Dabigatran Impurity 4 (Amide Impurity)	SP-D4-101
75	Dabigatran	Dabigatran Impurity 7 (N- oxide Impurity)	SP-D4-102
76	Dabigatran	Dabigatran Impurity 3	SP-D4-103
77	Dabigatran	Dabigatran Impurity 5	SP-D4-104
78	Dabigatran	Dabigatran Impurity 6	SP-D4-105
79	Dabigatran	Dabigatran Impurity 8	SP-D4-106
80	Dipyridamole	Dipyridamole Tartaric Acid Ester adduct Impurity	SP-D5-101
81	Droxidopa	Droxidopa Impurity M	SP-D6-101
82	Droxidopa	[2-(3,4-dihydroxyphenyl)acetaldehyde]	SP-D6-102
83	Droxidopa	[2-hydroxy-2-(3,4-dihydroxyphenyl)acetaldehyde]	SP-D6-103
84	Dapagliflozin	Dapagliflozin Impurity (MW: 423Da)	SP-D7-101
85	Dapagliflozin	Dapagliflozin Impurity (MW: 437Da)	SP-D7-102
86	Dapagliflozin	Dapagliflozin Impurity (MW: 425Da)	SP-D7-103
87	Doxycycline	2-Acetyldoxycycline	SP-D8-101
88	Doxycycline	4-Epidoxycycline	SP-D8-102
89	Dolutegravir	Dolutegravir Sodium Diastereomers	SP-D9-101

S.No	API	Impurity Name	Compound ID
90	Dolutegravir	Dolutegravir Sodium Enantiomers	SP-D9-102
91	Digoxin	Digoxin Impurity – E	SP-D10-101
92	Desonide	Desonide Impurity at RRT 0.74	SP-D11-101
93	Dexmedetomidine	1-benzyl-5-(1-(2,3-dimethylphenyl)ethyl)-1H-imidazole	SP-D12-101
94	Dexmedetomidine	1-benzyl-5-(1-(2,3-dimethylphenyl)vinyl)-1H-imidazole	SP-D12-102
95	Dexmedetomidine	5-[1-(2,3-dimethylphenyl)ethyl]-1-ethyl-1H-imidazole	SP-D12-103
97	Dexmedetomidine	1-(1-benzyl-1H-imidazol-5-yl)-1-(2,3-dimethylphenyl)ethanol	SP-D12-104
98	Emtricitabine	Emtricitabine Enantiomer Impurity	SP-E1-101
99	Emtricitabine	Emtricitabine (RR) acid Impurity	SP-E1-102
100	Eszopiclone	Eszopiclone Impurity C	SP-E2-101
101	Ethinylestradiol	Ethinylestradiol Impurity C	SP-E3-101
102	Ethinylestradiol	Ethinylestradiol Impurity D	SP-E3-102
103	Enalapril	Enalapril Impurity E	SP-E4-101
104	Ethacrynic acid	Ethacrynic acid Impurity B	SP-E5-101
105	Eluxadolone	Eluxadolone (RR) Isomer	SP-E6-101
106	Eluxadolone	Eluxadolone (SR) Isomer	SP-E6-102
107	Eluxadolone	Eluxadolone (RS) Isomer	SP-E6-103
108	Efinaconazole	Efinaconazole (RS) Diastereomer	SP-E7-101
109	Efinaconazole	Efinaconazole (SR) Diastereomer	SP-E7-102
110	Epinephrine	Epinephrine Impurity B	SP-E8-101
111	Epinephrine	Epinephrine Impurity C	SP-E8-102
112	Epinephrine	Epinephrine Impurity D	SP-E8-103

S.No	API	Impurity Name	Compound ID
113	Epinephrine	Epinephrine Impurity E	SP-E8-104
114	Epinephrine	Epinephrine Impurity F	SP-E8-105
115	Epinephrine	Epinephrine thio Sulfonic acid	SP-E8-106
116	Ephedrine	[(1R,2S) Ephedrine]	SP-E9-101
117	Ephedrine	[(1S,2R)Ephedrine]	SP-E9-102
118	Ephedrine	[(1R,2R) Pseudoephedrine]	SP-E9-103
119	Ephedrine	[(1S,2S) Pseudoephedrine]	SP-E9-104
120	Fluoxetine	N-formyl fluoxetine	SP-F1-101
121	Flutamide	Flutamide Impurity C	SP-F2-101
122	Gemcitabine	Gemcitabine EP Impurity C	SP-G1-101
123	Gemcitabine	Cytosine	SP-G1-102
124	Gatifloxacin	Gatifloxacin Despropylene Impurity	SP-G2-101
125	Gatifloxacin	Gatifloxacin Desethylene Impurity	SP-G2-102
126	Gatifloxacin	Gatifloxacin USP Impurity C	SP-G2-103
127	Haloperidol	Haloperidol decanoate Impurity F	SP-H1-101
128	Haloperidol	Haloperidol Impurity F	SP-H1-102
129	Haloperidol	Haloperidol Impurity C	SP-H1-103
130	Hydroxyuridine	Hydroxyuridine / Sofosbuvir Impurity 12	SP-H2-101
131	Hydralazine	Hydralazine Lactose adduct	SP-H3-101
132	Hydroxyprogesterone	Hydroxyprogesterone epoxy Impurity	SP-H4-101
133	Hydroxyprogesterone	Hydroxyprogesterone compound 1(MW: 430Da)	SP-H4-102
134	Hydrazide	Trans Hydrazide	SP-H5-101

S.No	API	Impurity Name	Compound ID
135	Hydrazide	Cis Hydrazide	SP-H5-102
136	Ibuprofen	Keto butylene	SP-I1-101
137	Ibuprofen	Acetic acid,2-(1-methylethoxy)-,1-methylethyl ester (IPA Impurity)	SP-I1-102
138	Ibuprofen	Benzene acetaldehyde,a-methyl-4-2(methyl-1-propen-1-yl)	SP-I1-103
139	Levothyroxine	Levothyroxine N-Methylamide Impurity	SP-L1-101
140	Levothyroxine	Levothyroxine EP Impurity B	SP-L1-102
141	Levothyroxine	Levothyroxine EP Impurity C	SP-L1-103
142	Levothyroxine	Levothyroxine EP Impurity F	SP-L1-104
143	Levothyroxine	Levothyroxine Impurity 5	SP-L1-105
144	Levothyroxine	Levothyroxine acetamide Impurity	SP-L1-106
145	Levothyroxine	Levothyroxine N-acetamide Impurity	SP-L1-107
146	Levothyroxine	Levothyroxine N-formamide Impurity	SP-L1-108
147	Levothyroxine	Levothyroxine EP Impurity D / T4-Acetic Acid (USP)	SP-L1-109
148	Levothyroxine	Levothyroxine EP Impurity H / T4-Benzoic Acid (USP)	SP-L1-110
149	Levothyroxine	Levothyroxine –T4 Hydroxy acetic acid	SP-L1-111
150	Levothyroxine	Levothyroxine EP Impurity I / T4-Aldehyde (USP)	SP-L1-112
151	Levothyroxine	Levothyroxine T4-methyl formate	SP-L1-113
152	Levothyroxine	Levothyroxine T4-ethylamine.HCl	SP-L1-114
153	Levothyroxine	Levothyroxine Mono chloro (Ring-2)	SP-L1-115
154	Levothyroxine	Levothyroxine T4-Acetonitrile	SP-L1-116
155	Levothyroxine	Levothyroxine 2-Hydroxy T4-Acetic acid-N-methyl amide	SP-L1-117
156	Levothyroxine	Levothyroxine 2-Hydroxy T4-Acetic acid-N-methyl ester	SP-L1-118

S.No	API	Impurity Name	Compound ID
157	Levothyroxine	Levothyroxine 2-Hydroxy T4-Acetamide	SP-L1-119
158	Levothyroxine	3-hydroxy-2-(4-(4-hydroxy-3, 5-diiodophenoxy)-3, 5-diiodophenyl) propanoic acid	SP-L1-120
159	Levothyroxine	2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-N-methyl-2-methylamino)acetamide	SP-L1-121
160	Levothyroxine	3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-(2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)propanoic acid	SP-L1-122
161	Levothyroxine	2-(2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	SP-L1-123
162	Levothyroxine	2-(2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid	SP-L1-124
163	Levothyroxine	Levothyroxine 2-hydroxy T4-acetic acid/T-4 hydroxy acetic acid	SP-L1-125
164	Levothyroxine	2-((S)-2-amino-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanamido)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	SP-L1-126
165	Levothyroxine	2-((S)-2-amino-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanamido)-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid	SP-L1-127
166	Levothyroxine	3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzyl)-6-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)piperazine-2,5-dione	SP-L1-128
167	Levothyroxine	2-(2-hydroxy-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	SP-L1-129
168	Levothyroxine	3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-4-(methylamino)butanoic acid	SP-L1-130
169	Levothyroxine	3-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-N-methylpropanamide	SP-L1-131
170	Levothyroxine	(2-((4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzyl)amino)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid	SP-L1-132
171	Levothyroxine	2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzamido)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid (Amide-bridged)	SP-L1-133

S.No	API	Impurity Name	Compound ID
172	Levothyroxine	3,5,3',5'-Tetraiodo Thyrolactic Acid	SP-L1-134
173	Levothyroxine	Levothyroxine Lactose Adduct	SP-L1-135
174	Lacosamide	Lacosamide Impurity K	SP-L2-101
175	Lacosamide	Lacosamide Impurity I	SP-L2-102
176	Lacosamide	Lacosamide Impurity C	SP-L2-103
177	Lacosamide	Lacosamide Impurity H	SP-L2-104
178	Lisinopril	Lisinopril N-Alkyl Impurity	SP-L3-101
179	Lisinopril	Lisinopril EP Impurity G (Dimer Impurity)	SP-L3-102
180	Lisinopril	R, S, S-diketopiperazine Lisinopril Impurity	SP-L3-103
181	Levomilnacipran	Levomilnacipran Impurity	SP-L4-101
182	Leucine	N-Methoxycarbonyl-L-Leucine	SP-L5-101
183	Mesalamine	Mesalamine EP Impurity S	SP-M1-101
184	Mesalamine	Mesalamine EP Impurity P	SP-M1-102
185	Macitentan	Cyclic Macitentan quarternary salt Impurity	SP-M2-101
186	Macitentan	Macitentan desbromo pyrimidine Impurity	SP-M2-102
187	Oxazolidinone	1,3-Oxazolidone-2-thione	SP-O1-101
188	Oxazolidinone	2-thiazoline-2-thiol / 2-Mercaptothiazoline	SP-O1-102
189	Oxazolidinone	Oxazolidinone Dimer Impurity	SP-O1-103
190	Olanzapine	Olanzapine Thio Lactam Impurity	SP-O2-101
191	Olanzapine	Olanzapine Lactam Impurity	SP-O2-102
192	Oxybutynin	Oxybutynin Impurity (MW: 481Da)	SP-O3-101
193	Oxybutynin	Oxybutynin USP Related compound A	SP-O3-102

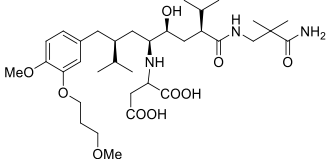
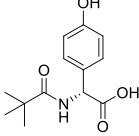
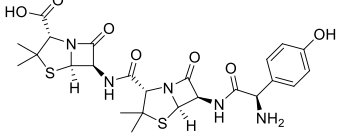
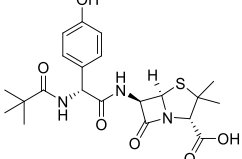
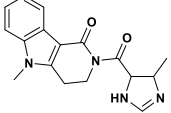
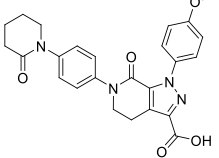
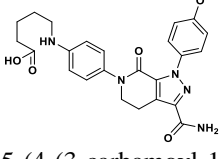
S.No	API	Impurity Name	Compound ID
194	Oxybutynin	Oxybutynin Impurity (MW: 394Da)	SP-O3-103
195	Omeprazole	Omeprazole Impurity K	SP-O4-101
196	Oseltamivir	Oseltamivir Impurity Mixture (MW: 486Da)	SP-O5-101
197	Oseltamivir	Oseltamivir Impurity (MW: 468Da)	SP-O5-102
198	Octisalate	Octisalate Impurity (MW: 406Da)	SP-O6-101
199	Paracetamol	Paracetamol EP Impurity A	SP-P1-101
200	Paracetamol	Paracetamol EP Impurity B	SP-P1-102
201	Paracetamol	Paracetamol EP Impurity D	SP-P1-103
202	Paracetamol	Paracetamol EP Impurity E	SP-P1-104
203	Paracetamol	Paracetamol EP Impurity F	SP-P1-105
204	Paracetamol	Paracetamol EP Impurity G	SP-P1-106
205	Paracetamol	Paracetamol EP Impurity H	SP-P1-107
206	Paracetamol	Paracetamol EP Impurity I	SP-P1-108
207	Paracetamol	Paracetamol EP Impurity J	SP-P1-109
208	Paracetamol	Paracetamol EP Impurity K	SP-P1-110
209	Propranolol	Propranolol Impurity	SP-P2-101
210	Pomalidomide	Pomalidomide Ring open Diacid Impurity	SP-P3-101
211	Pomalidomide	Pomalidomide Ring open amide acid Impurity	SP-P3-102
212	Penicillamine	Penicillamine Impurity A	SP-P4-101
213	Piperacillin	Piperacillin Impurity F	SP-P5-101
214	Pregabalin	Pregabalin Impurity 1	SP-P6-101
215	Pregabalin	Pregabalin USP Related Compound C	SP-P6-102

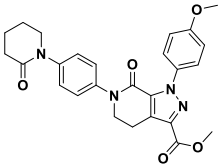
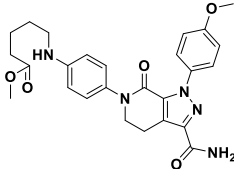
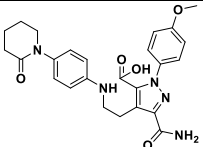
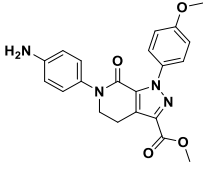
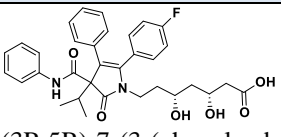
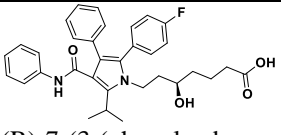
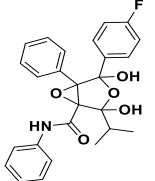
S.No	API	Impurity Name	Compound ID
216	Pregabalin	Pregabalin Amine Amide Impurity	SP-P6-103
217	Perindopril	Perindopril EP Impurity G	SP-P7-101
218	Ramipril	Ramipril Isomer 1	SP-R1-101
219	Ranitidine	Ranitidine oxoacetic acid Impurity	SP-R2-101
220	Sugammadex	Sugammadex Methyl ester Impurity	SP-S1-101
221	Sugammadex	Sugammadex Monohydroxy Impurity	SP-S1-102
222	Sugammadex	Sugammadex Sulfoxide diastereomer-1	SP-S1-103
223	Sugammadex	Sugammadex Sulfoxide diastereomer-2	SP-S1-104
224	Sugammadex	Sugammadex Monochloro Impurity	SP-S1-105
225	Sugammadex	Sugammadex Disulfide Impurity	SP-S1-106
226	Sugammadex	Sugammadex Mono thiol Impurity	SP-S1-107
227	Sugammadex	Sugammadex Monobromo Impurity	SP-S1-108
228	Sugammadex	Sugammadex Di thio Dimer Impurity	SP-S1-109
229	Sugammadex	Sugammadex Dihydroxy Impurity	SP-S1-110
230	Sugammadex	Sugammadex Ethyl ester Impurity	SP-S1-111
231	Sugammadex	Sugammadex Monomethyl thio Impurity	SP-S1-112
232	Sugammadex	Sugammadex Disulfoxide Impurity	SP-S1-113
233	Sugammadex	Sugammadex Octa sulfoxide Impurity	SP-S1-114
234	Sugammadex	Sugammadex Octa sulfone Impurity	SP-S1-115
235	Sugammadex	Sugammadex Monoiodo Impurity	SP-S1-116
236	Sugammadex	Sugammadex Nitrile Impurity	SP-S1-117
237	Sugammadex	Sugammadex Dimethyl amino Impurity	SP-S1-118

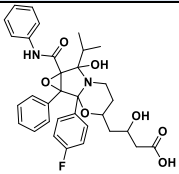
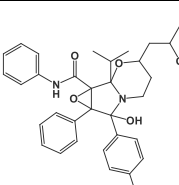
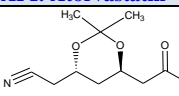
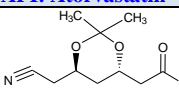
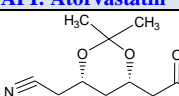
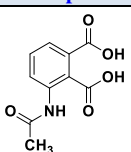
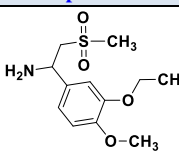
S.No	API	Impurity Name	Compound ID
238	Sugammadex	Sugammadex Dioxolane Impurity	SP-S1-119
239	Sugammadex	Octa chloro Gamma Cyclodextrin	SP-S1-120
240	Sugammadex	Octa bromo Gamma Cyclodextrin	SP-S1-121
241	Sugammadex	Octa Iodo Gamma Cyclodextrin	SP-S1-122
242	Sugammadex	Monohydroxy Chloro Gamma Cyclodextrin	SP-S1-123
243	Sugammadex	Monohydroxy Iodo Gamma Cyclodextrin	SP-S1-124
244	Sugammadex	Dihydroxy Iodo Gamma Cyclodextrin	SP-S1-125
245	Sugammadex	Dimethyl amino Iodo Gamma Cyclodextrin	SP-S1-126
246	Sugammadex	3-((3-mercaptopropanoyl)thio)propanoic acid	SP-S1-127
247	Sugammadex	Monochloro Iodo Gamma Cyclodextrin	SP-S1-128
248	Sugammadex	Sugammadex Mono thio Dimer	SP-S1-129
249	Sugammadex	Anhydro Iodo Gamma Cyclodextrin	SP-S1-130
250	Sugammadex	Ether Iodo Gamma Cyclodextrin	SP-S1-131
251	Selegiline	Selegiline Impurity (MW: 224Da)	SP-S2-101
252	Teriflunomide	Teriflunomide Impurity (MW: 244Da)	SP-T1-101
253	Teriflunomide	Teriflunomide Impurity (MW: 228Da)	SP-T1-102
254	Teriflunomide	Teriflunomide Impurity (MW: 233Da)	SP-T1-103
255	Tofacitinib	Tofacitinib N-acid Impurity	SP-T2-101
256	Tofacitinib	Tofacitinib Keto Impurity	SP-T2-102
257	Tofacitinib	Tofacitinib N-amide Impurity	SP-T2-103
258	Tofacitinib	N-Desmethyl, N-Des Formyl acetonitrile Tofacitinib	SP-T2-104
259	Tofacitinib	N-Desmethyl Tofacitinib	SP-T2-105

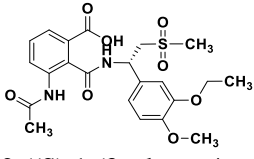
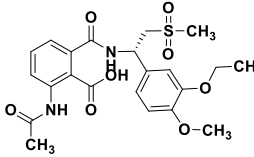
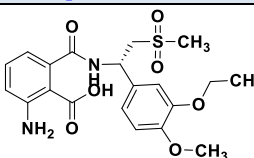
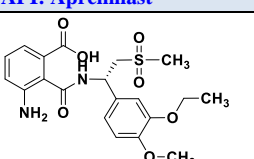
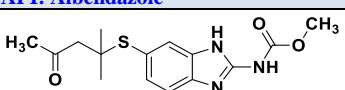
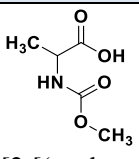
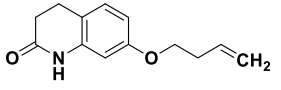
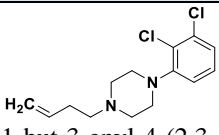
S.No	API	Impurity Name	Compound ID
260	Thiamiprine	Thiamiprine Impurity / Azathioprine impurity G	SP-T3-101
261	Timolol	Timolol Impurity B	SP-T4-101
262	Tetracycline	2-Acetyl 2-decarbomyl tetracycline	SP-T5-101
263	Tacrolimus	Tacrolimus Alcohol adduct	SP-T6-101
264	Thiothixene	Thiothixene Impurity at RRT 0.84	SP-T7-101
265	Vigabatrin	Vigabatrin Impurity 1 (MW: 169Da)	SP-V1-101
266	Vigabatrin	Vigabatrin Impurity 2 (MW: 256Da)	SP-V1-102
267	Vigabatrin	Vigabatrin Impurity C	SP-V1-103
268	Vigabatrin	Vigabatrin EP Impurity-F (Dimer)	SP-V1-104
269	Varenicline	N-Formyl Varenicline	SP-V2-101
270	Varenicline	Varenicline N- Hydroxy Impurity	SP-V2-102
271	Varenicline	Varenicline Impurity 2	SP-V2-103
272	Varenicline	Varenicline Impurity 4	SP-V2-104
273	Varenicline	Varenicline Impurity 5	SP-V2-105
274	Varenicline	Varenicline Metadinitro Impurity	SP-V2-106
275	Varenicline	Varenicline Mononitro Impurity	SP-V2-107
276	Varenicline	Varenicline Monoamino Impurity	SP-V2-108
277	Varenicline	Varenicline N-methyl Impurity	SP-V2-109
278	Varenicline	Varenicline Metadiamino HCl Impurity	SP-V2-110
279	Varenicline	Varenicline Impurity F	SP-V2-111
280	Varenicline	Methyl Varenicline Impurity	SP-V2-112
281	Vitamin K1	Vitamin K1 hydroxylated Impurity	SP-V3-101

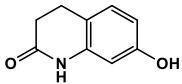
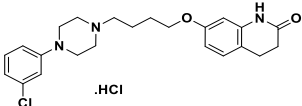
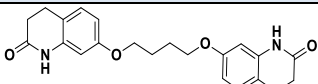
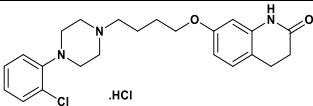
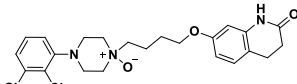
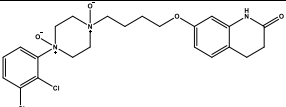
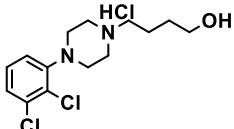
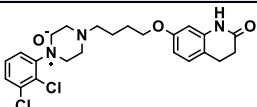
S.No	API	Impurity Name	Compound ID
282	Vitamin K1	Trans Epoxy phytomenadione / Oxidative Degradation Impurity	SP-V3-102
283	Vitamin K1	Phytonadione Aliphatic Epoxide Impurity	SP-V3-103
284	Vitamin K1	Phytonadione Hydroperoxide Impurity	SP-V3-104
285	Vitamin K1	Napthochromenol	SP-V3-105
286	Valproic acid	Valproic acid Impurity (MW: 244Da)	SP-V4-101
287	Valine	N-Methoxycarbonyl-L-valine-valine-OH	SP-V5-101
288	Vortioxetine	N-Formyl Vortioxetine	SP-V6-101
290	Vortioxetine	Desethylene Vortioxetine	SP-V6-102
291	Vitamin B12	Lacto cyanocobalamin (Impurity-F)	SP-V7-101
292	Vitamin B12	50-Carboxy cyanocobalamin (Impurity-50)	SP-V7-102
293	Vitamin B12	32-Carboxycyanocobalamin	SP-V7-103
294	Vitamin B12	34-Methylcyanocobalamin	SP-V7-104
295	Vitamin B12	8-Epi Cyanocobalamin	SP-V7-105
296	Vitamin B12	Cyanocobalamin Impurity –D (Lactam)	SP-V7-106
297	Zileuton	Zileuton Impurity (MW: 279.31 Da)	SP-Z1-101

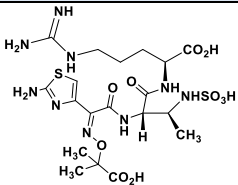
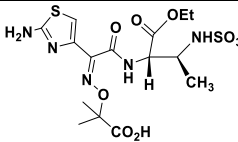
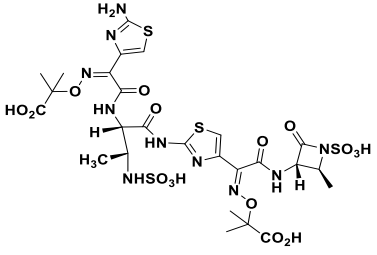
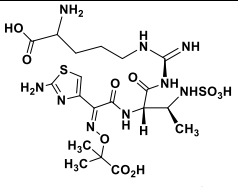
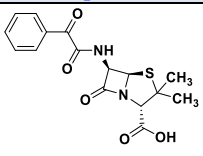
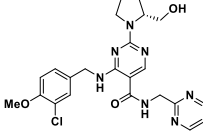
Aliskiren Michael Adduct Impurity API: Aliskiren	Catalogue code: SP-A1-101
 <p>2-((3S,5S,6S,8S)-8-(3-amino-2,2-dimethyl-3-oxopropylcarbamoyl)-6-hydroxy-3-(4-methoxy-3-(3-methoxypropoxy)benzyl)-2,9-dimethyldecan-5-ylamino)succinic acid</p>	Molecular Formula: C ₃₄ H ₅₇ N ₃ O ₁₀ Molecular Weight: 667.83 Da CAS No : N/A
Amoxicillin EP Impurity H API: Amoxicillin	Catalogue code: SP-A2-101
 <p>(2R)-2-(2,2-dimethylpropanoylamino)-2-(4-hydroxyphenyl)acetic acid</p>	Molecular Formula: C ₁₃ H ₁₇ NO ₄ Molecular Weight: 251.28 Da CAS No: 205826-86-4
Amoxicillin EP Impurity L API: Amoxicillin	Catalogue Code: SP-A2-102
 <p>(2S,5R,6R)-6-[[[(2S,5R,6R)-6-[[[(2R)-2-Amino-2-(4-hydroxyphenyl)acetyl] amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carbonyl] amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid</p>	Molecular Formula: C ₂₄ H ₂₉ N ₅ O ₇ S ₂ Molecular Weight: 563.66 Da CAS No: 1789703-32-7
Amoxicillin Pivaloyl Impurity API: Amoxicillin	Catalogue Code: SP-A2-103
 <p>(2S,5R,6R)-6-[[[(2R)-2-[(2,2-Dimethyl-1-oxopropyl)amino]-2-(4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic Acid</p>	Molecular Formula: C ₂₁ H ₂₇ N ₃ O ₆ S Molecular Weight: 449.52 Da CAS No: 1313237-94-3
Alosetron Impurity (MW: 311 Da) API: Alosetron	Catalogue code: SP-A3-101
 <p>5-methyl-2-(4-methyl-4,5-dihydro-1H-imidazole-5-carbonyl)-2,3,4,5-tetrahydro-1H-pyrido[4,3-b]indol-1-one</p>	Molecular Formula: C ₁₇ H ₁₉ N ₄ O ₂ Molecular Weight: 311 Da CAS No : N/A
Apixaban Impurity A (MW: 460 Da) API: Apixaban	Catalogue Code: SP-A4-101
 <p>1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid</p>	Molecular Formula: C ₂₅ H ₂₄ N ₄ O ₅ Molecular Weight: 460.48 Da CAS No: 503614-92-4
Apixaban Base degradant -1 (MW: 477 Da) API: Apixaban	Catalogue Code: SP-A4-102
 <p>5-(4-(3-carbamoyl-1-(4-methoxyphenyl)-7-oxo-4,5-dihydro-1H-pyrazolo[3,4-c]pyridin-6(7H)-yl)phenylamino)pentanoic acid</p>	Molecular Formula: C ₂₅ H ₂₇ N ₅ O ₅ Molecular Weight: 477.51 Da CAS No: N/A

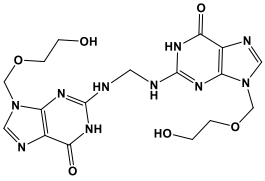
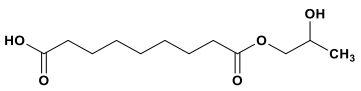
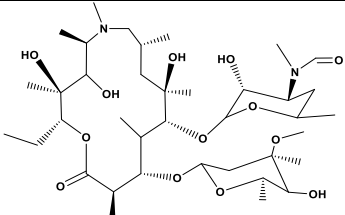
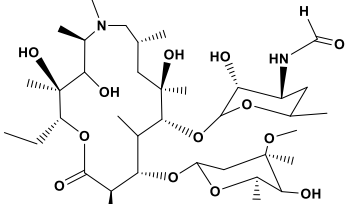
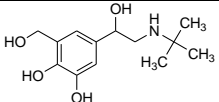
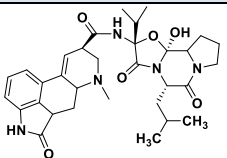
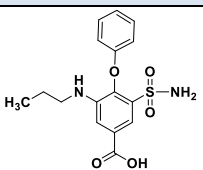
Apixaban methylester Impurity API: Apixaban	Catalogue Code: SP-A4-103
 <p>methyl 1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylate</p>	Molecular Formula: C ₂₆ H ₂₆ N ₄ O ₅ Molecular Weight: 474.51 Da CAS No: N/A
Apixaban Open Ring Impurity API: Apixaban	Catalogue Code: SP-A4-104
 <p>methyl 5-(4-(3-carbamoyl-1-(4-methoxyphenyl)-7-oxo-4,5-dihydro-1H-pyrazolo[3,4-c]pyridin-6(7H)-yl)phenylamino)pentanoate</p>	Molecular Formula: C ₂₆ H ₂₉ N ₅ O ₅ Molecular Weight: 491.54 Da CAS No: N/A
Apixaban base degradent- 2 (MW: 477 Da) API: Apixaban	Catalogue Code: SP-A4-105
 <p>(5-Carbamoyl-2-(4-methoxy-phenyl)-4-{2-[4-(2-oxo-piperidin-1-yl)-phenylamino]-ethyl}-2H-pyrazole-3-carboxylic acid)</p>	Molecular Formula: C ₂₅ H ₂₇ N ₅ O ₅ Molecular Weight: 477.51 Da CAS No: N/A
Apixaban methyl ester des pentanoyl Impurity (DP5) API: Apixaban	Catalogue Code: SP-A4-106
 <p>methyl 6-(4-aminophenyl)-4,5,6,7-tetrahydro-1-(4-methoxyphenyl)-7-oxo-1H-pyrazolo[3,4-c]pyridine-3-carboxylate</p>	Molecular Formula: C ₂₁ H ₂₀ N ₄ O ₄ Molecular Weight: 392.41 Da CAS No: N/A
Atorvastatin pyrrolidone analog API: Atorvastatin	Catalogue Code: SP-A5-101
 <p>(3R,5R)-7-(3-(phenylcarbamoyl)-5-(4-fluorophenyl)-2,3-dihydro-3-isopropyl-2-oxo-4-phenylpyrrol-1-yl)-3,5-dihydroxyheptanoic acid</p>	Molecular Formula: C ₃₃ H ₃₅ FN ₂ O ₆ Molecular Weight: 574 Da CAS No: N/A
3-des hydroxy Atorvastatin API: Atorvastatin	Catalogue Code: SP-A5-102
 <p>(R)-7-(3-(phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl)-5-hydroxyheptanoic acid</p>	Molecular Formula: C ₃₃ H ₃₅ FN ₂ O ₄ Molecular Weight: 542 Da CAS No : N/A
Atorvastatin epoxy tetrahydro furan analog API: Atorvastatin	Catalogue Code: SP-A5-103
 <p>4-(4-fluorophenyl)-2,4-dihydroxy-2-isopropyl-N,5-diphenyl-3,6-dioxo-bicyclo[3.1.0]hexane-1-carboxamide</p>	Molecular Formula: C ₂₆ H ₂₄ FNO ₅ Molecular Weight: 449 Da CAS No: N/A

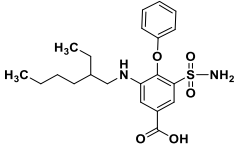
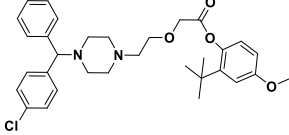
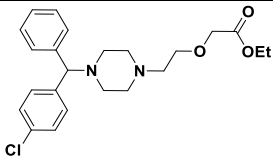
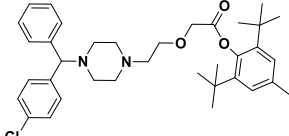
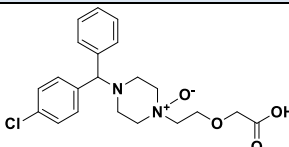
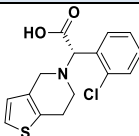
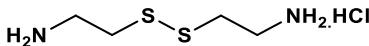
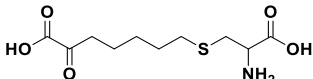
Atorvastatin epoxy pyrrolooxazin 7- hydroxy analog API: Atorvastatin	Catalogue Code: SP-A5-104
 <p>4-(1b-(-fluorophenyl)-7-hydroxy-7-isopropyl-1a-phenyl-7a-(phenylcarbamoyl)hexahydro-1aHoxireno[2',3':3,4]pyrrolo [2,1-b][1,3]oxazin-3-yl)-3-hydroxybutanoic acid</p>	Molecular Formula: C ₃₃ H ₃₅ FN ₂ O ₇ Molecular Weight: 590 Da CAS No: 1315629-798
Atorvastatin epoxy pyrrolooxazin 6- hydroxy analog API: Atorvastatin	Catalogue Code: SP-A5-105
 <p>[4-{6-(4-Fluorophenyl)-7,8-epoxy-6-hydroxy-8a-isopropyl-7-phenyl-8-(phenylcarbamoyl)hexahydro-2H-pyrrolo [2,1 b][1,3]oxazin-2-yl}-3-hydroxybutanoic acid]</p>	Molecular Formula: C ₃₃ H ₃₅ FN ₂ O ₇ Molecular Weight: 590 Da CAS No: 1316291-19-6
4R,6S Isomer of Atorvastatin API: Atorvastatin	Catalogue Code: SP-A5-106
 <p>[tert-butyl 2-((4R,6S)-6-(cyanomethyl)-2,2-dimethyl-1,3-dioxan-4-yl)acetate]</p>	Molecular Formula: C ₁₄ H ₂₃ NO ₄ Molecular Weight: 269 Da CAS No: 196085-84-4
4S,6R Isomer of Atorvastatin API: Atorvastatin	Catalogue Code: SP-A5-107
 <p>[tert-butyl 2-((4S,6R)-6-(cyanomethyl)-2,2-dimethyl-1,3-dioxan-4-yl)acetate]</p>	Molecular Formula: C ₁₄ H ₂₃ NO ₄ Molecular Weight: 269 Da CAS No: 186508-95-2
4S,6S Isomer of Atorvastatin API: Atorvastatin	Catalogue Code: SP-A5-108
 <p>[tert-butyl 2-((4S,6S)-6-(cyanomethyl)-2,2-dimethyl-1,3-dioxan-4-yl)acetate]</p>	Molecular Formula: C ₁₄ H ₂₃ NO ₄ Molecular Weight: 269 Da CAS No: 196085-85-5
Apremilast 3-Acetamido phthalic acid Impurity API: Apremilast	Catalogue code: SP-A6-101
 <p>3-acetamidobenzene-1,2-dioic acid</p>	Molecular Formula: C ₁₀ H ₉ NO ₅ Molecular Weight: 223 Da CAS No : 15371-06-9
Apremilast EP Impurity H API: Apremilast	Catalogue Code: SP-A6-102
 <p>1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethanamine</p>	Molecular Formula: C ₁₂ H ₁₉ NO ₄ S Molecular Weight: 273 Da CAS No: 253168-94-4

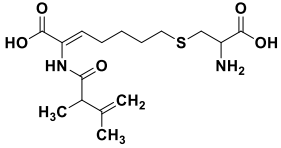
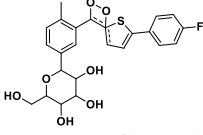
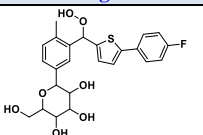
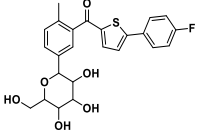
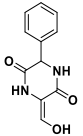
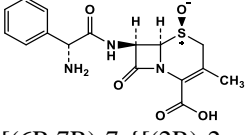
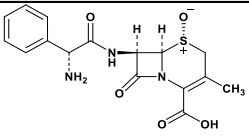
Apremilast 3-Acetamido phthalimide ring open Isomer Impurity-1 API: Apremilast	Catalogue Code: SP-A6-103
 <p>2-((S)-1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethylcarbamoyl)-3-acetamidobenzoic acid</p>	Molecular Formula: C ₂₂ H ₂₆ N ₂ O ₈ S Molecular Weight: 478 Da CAS No: 2096492-41-8
Apremilast 3-Acetamido phthalimide ring open Isomer Impurity-2 API: Apremilast	Catalogue Code: SP-A6-104
 <p>2-((S)-1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethylcarbamoyl)-6-acetamidobenzoic acid</p>	Molecular Formula: C ₂₂ H ₂₆ N ₂ O ₈ S Molecular Weight: 478 Da CAS No: 1809170-71-5
Apremilast 3-Amino phthalimide ring open Isomer Impurity-1 API: Apremilast	Catalogue Code: SP-A6-105
 <p>2-((S)-1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethylcarbamoyl)-3-aminobenzoic acid</p>	Molecular Formula: C ₂₀ H ₂₄ N ₂ O ₇ S Molecular Weight: 436 Da CAS No: N/A
Apremilast 3-Amino phthalimide ring open Isomer Impurity-2 API: Apremilast	Catalogue Code: SP-A6-106
 <p>2-((S)-1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethylcarbamoyl)-6-aminobenzoic acid</p>	Molecular Formula: C ₂₀ H ₂₄ N ₂ O ₇ S Molecular Weight: 436 Da CAS No: N/A
Albendazole EP Impurity H API: Albendazole	Catalogue code: SP-A7-101
 <p>[methyl 6-(2-methyl-4-oxopentan-2-ylthio)-1H-benzo[d]imidazol-2-ylcarbamate]</p>	Molecular Formula: C ₁₅ H ₁₉ N ₃ O ₃ S Molecular Weight: 472.51 Da CAS No: N/A
N-Methoxycarbonyl-L-Alanine API: Alanine	Catalogue code: SP-A8-101
 <p>[2-[(methoxycarbonyl)amino]propanoic acid]</p>	Molecular Formula: C ₅ H ₉ NO ₄ Molecular Weight: 147 Da CAS No: 59190-99-7
7-but-3-enyloxy-3,4-dihydro-1H-quinolin-2-one API: Aripiprazole	Catalogue code: SP-A9-101
 <p>7-but-3-enyloxy-3,4-dihydro-1H-quinolin-2-one</p>	Molecular Formula: C ₁₃ H ₁₅ NO ₂ Molecular Weight: 217 Da CAS No: 1359829-23-4
1-but-3-enyl-4-(2,3-chloro-phenyl)-piperazine API: Aripiprazole	Catalogue code: SP-A9-102
 <p>1-but-3-enyl-4-(2,3-chloro-phenyl)-piperazine</p>	Molecular Formula: C ₁₄ H ₁₈ Cl ₂ N ₂ Molecular Weight: 285 Da CAS No : 1424857-93-1

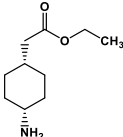
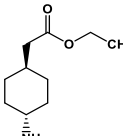
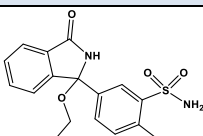
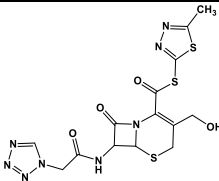
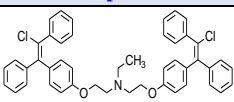
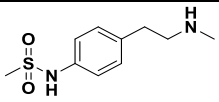
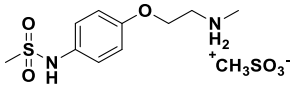
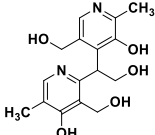
Aripiprazole EP Impurity A API: Aripiprazole	Catalogue code: SP-A9-103
 [3,4-dihydro-7-hydroxyquinolin-2(1H)-one]	Molecular Formula: C ₉ H ₉ NO ₂ Molecular Weight: 163 Da CAS No: 22246-18-0
Aripiprazole EP Impurity D API: Aripiprazole	Catalogue code: SP-A9-104
 [7-{4-[4-(3-Chloro-phenyl)-piperazin-1-yl]-butoxy}-3,4-dihydro-1H-quinolin-2-one hydrochloride]	Molecular Formula: C ₂₃ H ₂₈ ClN ₃ O ₂ Molecular Weight: 414 Da CAS No: 203395-82-8
7,7(Butylenedioxy)-di-3,4-dihydroquinolin-2(1H)-one API: Aripiprazole	Catalogue code: SP-A9-105
 7,7(Butylenedioxy)-di-3,4-dihydroquinolin-2(1H)-one	Molecular Formula: C ₂₂ H ₂₄ N ₂ O ₄ Molecular Weight: 380 Da CAS No: 882880-12-8
Aripiprazole EP Impurity C. HCl API: Aripiprazole	Catalogue code: SP-A9-106
 [7-{4-[4-(2-Chloro-phenyl)-piperazin-1-yl]-butoxy}-3,4-dihydro-1H-quinolin-2-one hydrochloride]	Molecular Formula: C ₂₃ H ₂₈ ClN ₃ O ₂ Molecular Weight: 414 Da CAS No: 203395-81-7
Aripiprazole EP Impurity F API: Aripiprazole	Catalogue code: SP-A9-107
 [7-{4-[4-(2,3-Dichloro-phenyl)-1-oxy-piperazin-1-yl]-butoxy}-3,4-dihydro-1H-quinolin-2-one]	Molecular Formula: C ₂₃ H ₂₇ Cl ₂ N ₃ O ₃ Molecular Weight: 464 Da CAS No: 573691-09-5
Aripiprazole peroxide degradation Impurity (MW: 480Da) API: Aripiprazole	Catalogue code: SP-A9-108
 [1-(2,3-dichlorophenyl)-4-(4-(2-oxo-1,2,3,4-tetrahydroquinolin-7-yloxy)butyl)piperazine 1,4-dioxide]	Molecular Formula: C ₂₃ H ₂₇ Cl ₂ N ₃ O ₄ Molecular Weight: 480 Da CAS No : 573691-13-1
Aripiprazole peroxide degradation Impurity (MW: 303Da) API: Aripiprazole	Catalogue code: SP-A9-109
 [4-(4-(2,3-dichlorophenyl)piperazin-1-yl)butan-1-ol]	Molecular Formula: C ₁₄ H ₂₀ Cl ₂ N ₂ O Molecular Weight: 303 Da CAS No: N/A
Aripiprazole peroxide degradation Impurity (MW: 464Da) API: Aripiprazole	Catalogue code: SP-A9-110
 [1-(2,3-dichlorophenyl)-4-(4-(2-oxo-1,2,3,4-tetrahydroquinolin-7-yloxy)butyl)piperazine 1-oxide]	Molecular Formula: C ₂₃ H ₂₇ Cl ₂ N ₃ O ₃ Molecular Weight: 464 Da CAS No: 573691-11-9

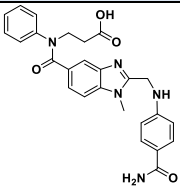
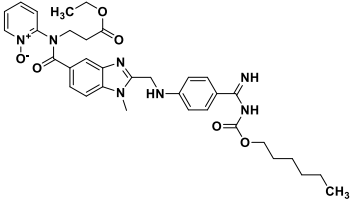
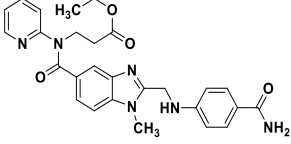
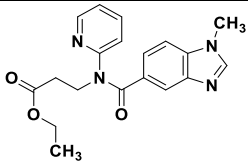
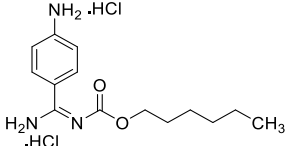
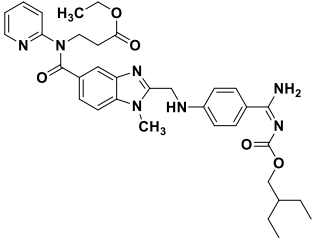
Aztreonam Impurity J API: Aztreonam	Catalogue code: SP-A10-101
 <p>[(8S,11S,Z)-5-(2-aminothiazol-4-yl)-11-(3-guanidinopropyl)-2,2-dimethyl-6,9-dioxo-8-((S)-1-(sulfoamino)ethyl)-3-oxa-4,7,10-triazadodec-4-ene-1,12-dioic acid]</p>	Molecular Formula: C ₁₉ H ₃₁ N ₉ O ₁₀ S ₂ Molecular Weight: 609 Da CAS No: N/A
Aztreonam In-House Impurity 1 API: Aztreonam	Catalogue code: SP-A10-102
 <p>[(S,Z)-5-(2-aminothiazol-4-yl)-2,2-dimethyl-6,9-dioxo-8-((S)-1-(sulfoamino)ethyl)-3,10-dioxo-4,7-diazadodec-4-en-1-oiic acid]</p>	Molecular Formula: C ₁₅ H ₂₃ N ₅ O ₉ S ₂ Molecular Weight: 481 Da CAS No: N/A
Aztreonam Impurity 2 API: Aztreonam	Catalogue code: SP-A10-103
 <p>[2-((Z)-1-(2-aminothiazol-4-yl)-2-((2S,3S)-1-(4-((Z)-1-(2-carboxypropan-2-yloxyimino)-2-((2R,3S)-2-methyl-4-oxo-1-sulfoazetidin-3-ylamino)-2-oxoethyl)thiazol-2-ylamino)-1-oxo-3-(sulfoamino)butan-2-ylamino)-2-oxoethylideneaminoxy)-2-methylpropanoic acid]</p>	Molecular Formula: C ₂₆ H ₃₄ N ₁₀ O ₁₆ S ₄ Molecular Weight: 871 Da CAS No: N/A
Aztreonam Impurity I API: Aztreonam	Catalogue code: SP-A10-104
 <p>(8S,16R,Z)-16-amino-5-(2-aminothiazol-4-yl)-11-imino-2,2-dimethyl-6,9-dioxo-8-((S)-1-(sulfoamino)ethyl)-3-oxa-4,7,10,12-tetrazaheptadec-4-ene-1,17-dioic acid</p>	Molecular Formula: C ₁₉ H ₃₁ N ₉ O ₁₀ S ₂ Molecular Weight: 609 Da CAS No: N/A
Ampicillin Impurity API: Ampicillin	Catalogue code: SP-A11-101
 <p>[(2S,5R,6R)-3,3-dimethyl-7-oxo-6-[[oxo(phenyl)acetyl]amino]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid]</p>	Molecular Formula: C ₁₆ H ₁₆ N ₂ O ₅ S Molecular Weight: 348 Da CAS No: N/A
Avanafil Isomer Impurity API: Avanafil	Catalogue code: SP-A12-101
 <p>[4-(4-methoxy-3-methylbenzylamino)-2-((R)-2-(hydroxymethyl)pyrrolidin-1-yl)-N-((pyrimidin-yl)methyl)pyrimidine-5-carboxamide]</p>	Molecular Formula: C ₂₈ H ₂₆ ClN ₇ O ₃ Molecular Weight: 483.95 Da CAS No: N/A

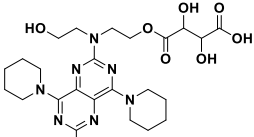

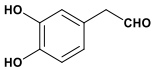
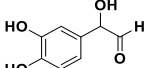
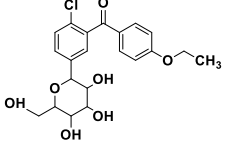
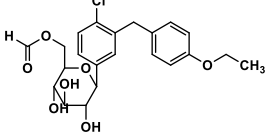
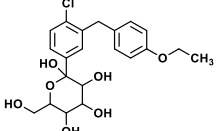
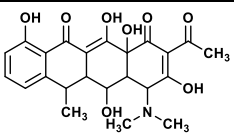
Acyclovir Impurity K / Valaciclovir EP Impurity L API: Acyclovir	Catalogue code: SP-A13-101
 <p>[2,2'-(methylenebis(azanediy))bis(9-((2-hydroxyethoxy)methyl)-1,9-dihydro-6H-purin-6-one]</p>	Molecular Formula: C ₁₇ H ₂₂ N ₁₀ O ₆ Molecular Weight: 462.42 Da CAS No: 1797131-64-6
Azelaic acid Impurity (MW: 246Da) API: Azelaic acid	Catalogue code: SP-A14-101
	Molecular Formula: C ₁₂ H ₂₂ O ₅ Molecular Weight: 246 Da CAS No: N/A
Azithromycin Impurity F (USP/EP) API: Azithromycin	Catalogue code: SP-A15-101
	Molecular Formula: C ₃₈ H ₇₀ N ₂ O ₁₃ Molecular Weight: 762 Da CAS No: 612069-28-0
Azithromycin Impurity M (USP/EP) API: Azithromycin	Catalogue code: SP-A15-102
	Molecular Formula: C ₃₇ H ₆₈ N ₂ O ₁₃ Molecular Weight: 748.47 Da CAS No: 765927-71-7
5-hydroxy Albuterol Impurity API: Albuterol	Catalogue code: SP-A16-101
	Molecular Formula: C ₁₃ H ₂₃ NO ₄ Molecular Weight: 255 Da CAS No: 182676-90-0
5-(2-(tert-butylamino)-1-hydroxyethyl)-3-(hydroxymethyl)benzene-1,2-diol	
Bromocriptine Impurity(MW: 591Da) API: Bromocriptine	Catalogue code: SP-B1-101
 <p>(9R)-N-((2R,5S,9bS)-9b-hydroxy-5-isobutyl-2-isopropyl-3,6-dioxodecahydrocyclopenta[c]oxazolo[3,2-a]pyridin-2-yl)-7-methyl-5-oxo-4,5,5a,6,6a,7,8,9-octahydroindolo[4,3-fg]quinoline-9-carboxamide</p>	Molecular Formula: C ₃₂ H ₄₁ N ₅ O ₆ Molecular Weight: 591 Da CAS No: N/A
4-phenoxy-3-(propylamino) 5-sulfamoyl benzoic acid API: Bumetanide	Catalogue Code: SP-B2-101
 <p>4-phenoxy-3-(propylamino) 5-sulfamoyl benzoic acid</p>	Molecular Formula: C ₁₆ H ₁₈ N ₂ O ₅ S Molecular Weight: 350 Da CAS No: N/A

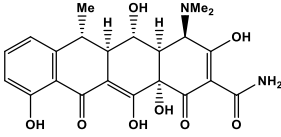
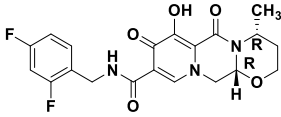
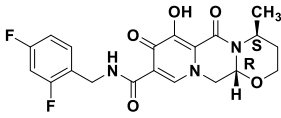
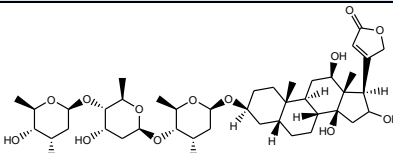
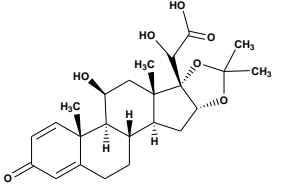
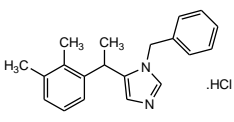
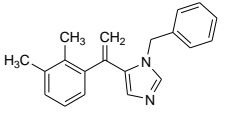
Bumetanide EP Impurity D API: Bumetanide	Catalogue Code: SP-B2-102
 <p>3-[[2-(2-ethylhexyl) amino]-4-phenoxy-5-sulfamoyl benzoic acid</p>	Molecular Formula: C ₂₁ H ₂₈ N ₂ O ₅ S Molecular Weight: 420 Da CAS No: 153012-65-8
Cetirizine Impurity BHA API: Cetirizine	Catalogue Code: SP-C2-101
 <p>[(8S,11S,Z)-5-(2-aminothiazol-4-yl)-11-(3-guanidinopropyl)-2,2-dimethyl-6,9-dioxo-8-((S)-1-(sulfoamino)ethyl)-3-oxa-4,7,10-triazadodec-4-ene-1,12-dioic acid]</p>	Molecular Formula: C ₃₂ H ₃₉ ClN ₂ O ₄ Molecular Weight: 550.26 Da CAS No: N/A
Cetirizine EP Impurity B Ethyl ester API: Cetirizine	Catalogue Code: SP-C2-102
 <p>ethyl 2-(2-(4-((4-chlorophenyl)(phenyl)methyl)piperazin-1-yl)ethoxy)acetate</p>	Molecular Formula: C ₂₃ H ₂₉ ClN ₂ O ₃ Molecular Weight: 416.94 Da CAS No: N/A
Cetirizine Impurity BHT API: Cetirizine	Catalogue Code: SP-C2-103
 <p>2,6-di-tert-butyl-4-methylphenyl 2-(2-(4-((4-chlorophenyl)(phenyl)methyl)piperazin-1-yl)ethoxy)acetate</p>	Molecular Formula: C ₃₆ H ₄₇ ClN ₂ O ₃ Molecular Weight: 591.22 Da CAS No: N/A
Cetirizine N-Oxide Impurity API: Cetirizine	Catalogue Code: SP-C2-104
 <p>1-(2-(carboxymethoxy)ethyl)-4-((4-chlorophenyl)(phenyl)methyl)piperazine 1-oxide</p>	Molecular Formula: C ₂₁ H ₂₅ ClN ₂ O ₄ Molecular Weight: 405 Da CAS. No: 1076199-80-8
Clopidogrel Impurity A (EP/USP) API: Clopidogrel	Catalogue Code: SP-C3-101
 <p>(S)-2-(2-chlorophenyl)-2-(6,7-dihydrothieno[3,2-c]pyridin-5(4H)-yl)acetic acid</p>	Molecular Formula: C ₁₅ H ₁₄ ClNO ₂ S Molecular Weight: 307.8 Da CAS No: 144457-28-3
Cystamine Dihydrochloride API: Cystamine	Catalogue Code: SP-C4-101
 <p>2-(2-(2-aminoethyl)disulfanyl)ethanamine dihydrochloride</p>	Molecular Formula: C ₄ H ₁₄ Cl ₂ N ₂ S ₂ Molecular Weight: 225.20 Da CAS No: 111625-30-0
Cilastatin Impurity E API: Cilastatin	Catalogue code: SP-C5-101
 <p>7-(2-amino-2-carboxyethylthio)-2-oxoheptanoic acid</p>	Molecular Formula: C ₁₀ H ₁₇ NO ₅ S Molecular Weight: 263.31 Da CAS No: 1174657-07-8

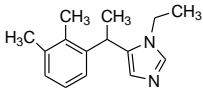
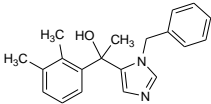
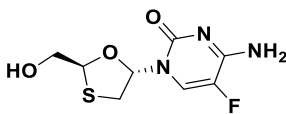
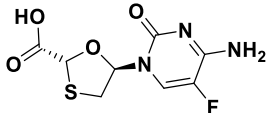
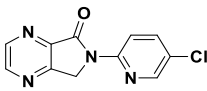
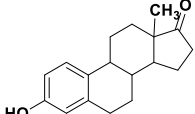
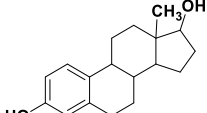
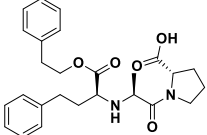
Cilastatin Impurity F API: Cilastatin	Catalogue Code: SP-C5-102
 <p>(Z)-7-(((R)-2-Amino-2-carboxyethyl)thio)-2-(2,3-dimethylbut-3-enamido)hept-2-enoic acid</p>	Molecular Formula: C ₁₆ H ₂₆ N ₂ O ₅ S Molecular Weight: 358.45 Da CAS No: N/A
Canagliflozin Oxidative Impurity-1 API: Canagliflozin	Catalogue Code: SP-C6-101
 <p>2-(3-(6-(4-fluorophenyl)-1,2-dioxo-5-thiaspiro[3.4]oct-6-en-3-yl)-4-methylphenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol</p>	Molecular Formula: C ₂₄ H ₂₅ FO ₇ S Molecular Weight: 476.51 Da CAS No: N/A
Canagliflozin Oxidative Impurity-2 API: Canagliflozin	Catalogue Code: SP-C6-102
 <p>2-(3-((5-(4-fluorophenyl)thiophen-2-yl)(hydroperoxy)methyl)-4-methylphenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol</p>	Molecular Formula: C ₂₄ H ₂₅ FO ₇ S Molecular Weight: 476.51 Da CAS No: N/A
Canagliflozin Oxidative Impurity-3 API: Canagliflozin	Catalogue Code: SP-C6-103
 <p>(5-(4-fluorophenyl)thiophen-2-yl)(2-methyl-5-(3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)phenyl)methanone</p>	Molecular Formula: C ₂₄ H ₂₃ FO ₆ S Molecular Weight: 458.50 Da CAS No: 1951467-28-9
Cephalexin diketopiperazine Impurity API: Cephalexin	Catalogue Code: SP-C7-101
 <p>(E)-3-(hydroxymethylene)-6-phenylpiperazine-2,5-dione</p>	Molecular Formula: C ₁₁ H ₁₀ N ₂ O ₃ Molecular Weight: 218 Da CAS No: 142975-48-2
Cephalexin S-sulfoxide API: Cephalexin	Catalogue code: SP-C7-102
 <p>[(6R,7R)-7-[[[(2R)-2-amino-2-phenylacetyl]amino]-2-carboxy-3-methyl-8-oxo-5-thionia-1-azabicyclo[4.2.0]oct-2-en-5-olate]</p>	Molecular Formula: C ₁₆ H ₁₇ N ₃ O ₅ S Molecular Weight: 363 Da CAS No: 74708-55-7
Cephalexin R-sulfoxide API: Cephalexin	Catalogue code: SP-C7-103
 <p>(5R,6R,7R)-[[[(2R)-2-amino-2-phenylacetyl]amino]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylicacid 5-oxide]</p>	Molecular Formula: C ₁₆ H ₁₇ N ₃ O ₅ S Molecular Weight: 363 Da CAS No: 52210-38-5

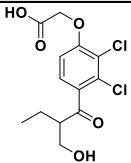
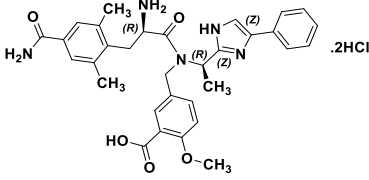
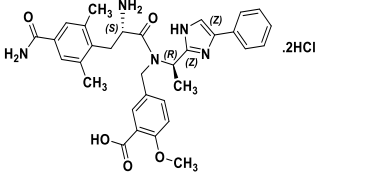
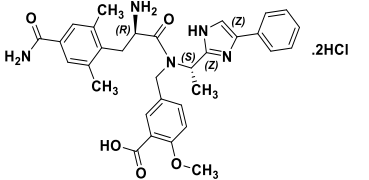
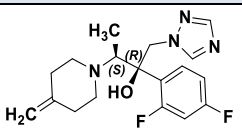
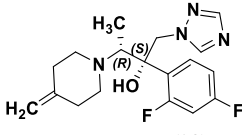
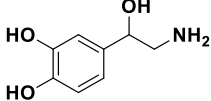
Ethyl cis-2-4-aminocyclohexylacetate HCl API: Cariprazine	Catalogue code: SP-C8-101
 ethyl cis-2-4-aminocyclohexylacetate HCl	Molecular Formula: C ₁₀ H ₁₉ NO ₂ Molecular Weight: 185 Da CAS No: N/A
Ethyl trans-2-4-amino cyclohexyl acetate HCl API: Cariprazine	Catalogue code: SP-C8-102
 Ethyl trans-2-4-amino cyclohexyl acetate HCl	Molecular Formula: C ₁₀ H ₁₉ NO ₂ Molecular Weight: 185 Da CAS No: N/A
Chlorthalidone Impurity (MW: 367Da) API: Chlorthalidone	Catalogue code: SP-C9-101
 [2-chloro-5-(1-ethoxy-3-oxo-2,3-dihydro-1H-isoindol-1-yl)benzenesulfonamide]	Molecular Formula: C ₁₆ H ₁₅ N ₂ O ₄ S Molecular Weight: 367 Da CAS No: N/A
Cefazolin Impurity (MW: 454.51Da) API: Cefazolin	Catalogue code: SP-C10-101
 [S-5-methyl-1,3,4-thiadiazol-2-yl 7-(2-(1H-tetrazol-1-yl)acetamido)-3-(hydroxymethyl)-8-oxo-5-thia-1-aza-bicyclo[4.2.0]oct-2-ene-2-carbothioate]	Molecular Formula: C ₁₄ H ₁₄ N ₈ O ₄ S ₃ Molecular Weight: 454.51 Da CAS No: N/A
(E)-Clomiphene Dimer Impurity API: Clomiphene	Catalogue code: SP-C11-101
 2-(4-((E)-2-chloro-1,2-diphenylvinyl)phenoxy)-N-(2-(4-((E)-2-chloro-1,2-diphenylvinyl)phenoxy)ethyl)-N-ethylethanamine	Molecular Formula: C ₄₆ H ₄₁ Cl ₂ NO ₂ Molecular Weight: 710.73 Da CAS No: N/A
Dofetilide Impurity A API: Dofetilide	Catalogue Code: SP-D2-101
 N-(4-(2-(methylamino)ethyl)phenyl)methane sulfonamide	Molecular Formula: C ₁₀ H ₁₆ N ₂ O ₂ S Molecular Weight: 228.31 Da CAS No: 115256-16-1
Dofetilide Impurity B API: Dofetilide	Catalogue Code: SP-D2-103
 N-methyl-2-(4-(methylsulfonamido)phenoxy)ethanaminium methanesulfonate	Molecular Formula: C ₁₁ H ₂₀ N ₂ O ₅ S ₂ Molecular Weight: 245.32 Da CAS No: N/A
Doxylamine Impurity 1 API: Doxylamine	Catalogue Code: SP-D3-101
 4-(2-hydroxy-1-(4-hydroxy-3-(hydroxymethyl)-5-methylpyridin-2-yl)ethyl)-5-(hydroxymethyl)-2-methylpyridin-3-ol	Molecular Formula: C ₁₆ H ₂₀ N ₂ O ₅ Molecular Weight: 320.34 Da CAS No: N/A

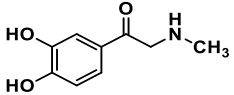
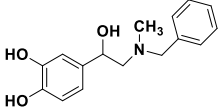
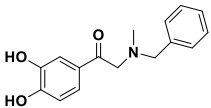
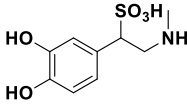
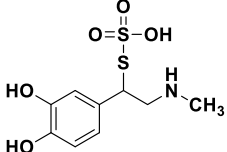
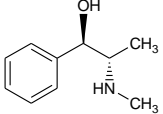
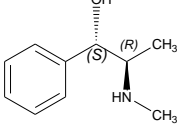
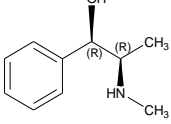
Dabigatran Impurity 4 (Amide Impurity) API: Dabigatran	Catalogue code: SP-D4-101
 <p>3-(2-((4-carbamoylphenylamino)methyl)-1-methyl-N-phenyl-1H-benzo[d]imidazole-5-carboxamido)propanoic acid</p>	Molecular Formula: C ₂₅ H ₂₄ N ₆ O ₄ Molecular Weight: 472.51 Da CAS No: N/A
Dabigatran Impurity 7 (N- oxide Impurity) API: Dabigatran	Catalogue Code: SP-D4-102
 <p>2-(N-(3-ethoxy-3-oxopropyl)-2-(4-(N-(hexyloxycarbonyl)carbamidoyl)phenethyl)-1-methyl-1H-benzo[d]imidazole-5-carboxamido)pyridine 1-oxide</p>	Molecular Formula: C ₃₄ H ₄₁ N ₇ O ₆ Molecular Weight: 643.73 Da CAS No: 1381757-44-3
Dabigatran Impurity 3 API: Dabigatran	Catalogue Code: SP-D4-103
 <p>[ethyl 3-(2-((4-carbamoylphenylamino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate]</p>	Molecular Formula: C ₂₇ H ₂₈ N ₆ O ₄ Molecular Weight: 500 Da CAS No: N/A
Dabigatran Impurity 5 API: Dabigatran	Catalogue code: SP-D4-104
 <p>[ethyl 3-(1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate]</p>	Molecular Formula: C ₁₉ H ₂₀ N ₄ O ₃ Molecular Weight: 352 Da CAS No: N/A
Dabigatran Impurity 6 API: Dabigatran	Catalogue Code: SP-D4-105
 <p>[hexyl [(E)-amino(4-aminophenyl)methylidene]carbamate]</p>	Molecular Formula: C ₁₄ H ₂₃ Cl ₂ N ₃ O ₂ Molecular Weight: 263 Da CAS No: N/A
Dabigatran Impurity 8 API: Dabigatran	Catalogue Code: SP-D4-106
 <p>[(E)-ethyl 3-(2-((4-(N'-(2-ethylbutoxy)carbonyl)carbamidoyl)phenylamino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate]</p>	Molecular Formula: C ₃₄ H ₄₁ N ₇ O ₅ Molecular Weight: 627 Da CAS No: N/A

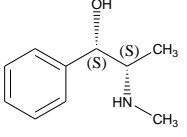
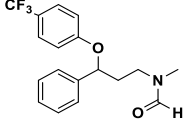
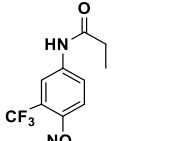
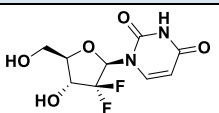
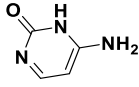
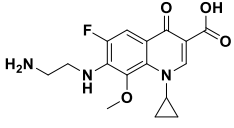
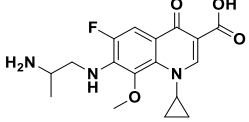
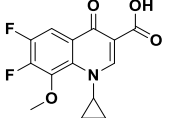
Dipyridamole Tartaric Acid Ester adduct Impurity API: Dipyridamole	Catalogue Code: SP-D5-101
 <p>4-(2-((6-(bis(2-hydroxyethyl)amino)-4,8-di(piperidin-1-yl)pyrimido[5,4-d]pyrimidin-2-yl)(2-hydroxyethyl)amino)ethoxy)-2,3-dihydroxy-4-oxobutanoic acid</p>	Molecular Formula: C ₂₈ H ₄₄ N ₈ O ₉ Molecular Weight: 636.70 Da CAS. No: NA
Droxidopa Impurity M API: Droxidopa	Catalogue Code: SP-D6-101
	Molecular Formula: C ₁₆ H ₁₅ NO ₄ Molecular Weight: 285 Da CAS No: 90044-46-5
Dopal API: Droxidopa	Catalogue Code: SP-D6-102
 <p>[2-(3,4-dihydroxyphenyl)acetaldehyde]</p>	Molecular Formula: C ₈ H ₈ O ₃ Molecular Weight: 152 Da CAS No: 5707-55-1
Dopegal API: Droxidopa	Catalogue Code: SP-D6-103
 <p>[2-hydroxy-2-(3,4-dihydroxyphenyl)acetaldehyde]</p>	Molecular Formula: C ₈ H ₈ O ₄ Molecular Weight: 168 Da CAS No: N/A
Dapagliflozin Impurity (MW:423Da) API: Dapagliflozin	Catalogue code: SP-D7-101
 <p>[(2-chloro-5-(tetrahydro-3,4,5-trihydroxy-6-(hydroxymethyl)-2H-pyran-2-yl)phenyl)(4-ethoxyphenyl)methanone]</p>	Molecular Formula: C ₂₁ H ₂₃ ClO ₇ Molecular Weight: 423 Da CAS No: N/A
Dapagliflozin Impurity (MW: 437Da) API: Dapagliflozin	Catalogue code: SP-D7-102
 <p>[(6-(3-(4-ethoxybenzyl)-4-chlorophenyl)-tetrahydro-3,4,5-trihydroxy-2H-pyran-2-yl)methyl formate]</p>	Molecular Formula: C ₂₂ H ₂₅ ClO ₇ Molecular Weight: 437 Da CAS No: N/A
Dapagliflozin Impurity (MW: 425Da) API: Dapagliflozin	Catalogue code: SP-D7-103
 <p>[2-(3-(4-ethoxybenzyl)-4-chlorophenyl)-tetrahydro-6-(hydroxymethyl)-2H-pyran-2,3,4,5-tetraol]</p>	Molecular Formula: C ₂₁ H ₂₅ ClO ₇ Molecular Weight: 425 Da CAS No: N/A
2-Acetyldoxycycline API: Doxycycline	Catalogue code: SP-D8-101
 <p>[2-acetyl-4-(dimethylamino)-4a,5,5a,6-tetrahydro-3,5,10,12,12a-pentahydroxy-6-methyltetracene-1,11(4H,12aH)-dione]</p>	Molecular Formula: C ₂₃ H ₂₅ NO ₈ Molecular Weight: 443.45 Da CAS No: 122861-53-4

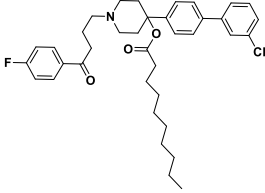
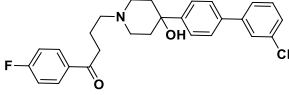
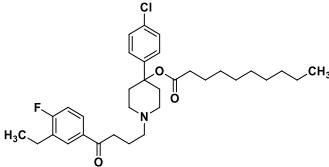
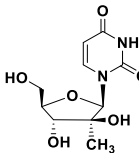
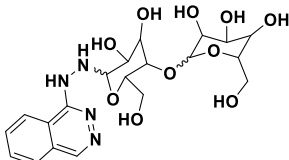
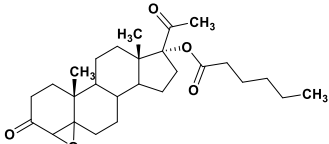
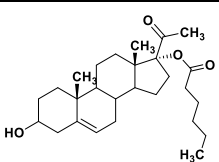
4-Epidoxycycline API: Doxycycline	Catalogue code: SP-D8-102
 <p>(4R,4aR,5S,5aR,6R,12aS)-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxotetracene-2-carboxamide</p>	Molecular Formula: C ₂₂ H ₂₄ N ₂ O ₈ Molecular Weight: 444.43Da CAS No: 6543-77-7
Dolutegravir Sodium Diastereomers API: Dolutegravir	Catalogue code: SP-D9-101
 <p>[(4R,12aR)-N-[(2,4-Difluorophenyl)methyl]-3,4,6,8,12,12a-hexahydro-7-hydroxy-4-methyl-6,8-dioxo-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide]</p>	Molecular Formula: C ₂₀ H ₁₉ F ₂ N ₃ O ₅ Molecular Weight: 419.38Da CAS No: N/A
Dolutegravir Sodium Enantiomers API: Dolutegravir	Catalogue code: SP-D9-102
 <p>[(4S,12aR)-N-[(2,4-Difluorophenyl)methyl]-3,4,6,8,12,12a-hexahydro-7-hydroxy-4-methyl-6,8-dioxo-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide]</p>	Molecular Formula: C ₂₀ H ₁₉ F ₂ N ₃ O ₅ Molecular Weight: 419.38Da CAS No: N/A
Digoxin EP Impurity – E API: Digoxin	Catalogue code: SP-D10-101
 <p>3β-[(2,6-dideoxy-β-D-ribo-hexopyranosyl-(1->4)-2,6-dideoxy-β-D-ribo-hexopyranosyl-(1->4)-2,6-dideoxy-β-D-ribo-hexopyranosyl)oxy]-12β,14,16β-trihydroxy-5β-card-20(22)-enolide</p>	Molecular Formula: C ₄₁ H ₆₄ O ₁₅ Molecular Weight: 796 Da CAS No: 52589-12-5
Desonide Impurity at RRT 0.74 API: Desonide	Catalogue code: SP-D11-101
 <p>[(2R)-2-hydroxy-2-((6aR,7S,8aS,8bR,11aR)-7-hydroxy-6a,8a,10,10-tetramethyl-4-oxo-1,2,4,6a,6b,7,8,8a,11a,12,12a,12b-dodecahydro-8bHnaphtho[2',1':4,5]indeno[1,2-d][1,3]dioxol-8b-yl)acetic acid]</p>	Molecular Formula: C ₂₄ H ₃₂ O ₇ Molecular Weight: 432 Da CAS No: N/A
1-benzyl-5-(1-(2,3-dimethylphenyl)ethyl)-1H-imidazole API: Dexmedetomidine	Catalogue code: SP-D12-101
 <p>1-benzyl-5-(1-(2,3-dimethylphenyl)ethyl)-1H-imidazole</p>	Molecular Formula: C ₂₀ H ₂₂ N ₂ Molecular Weight: 290 Da CAS No: N/A
1-benzyl-5-(1-(2,3-dimethylphenyl)vinyl)-1H-imidazole API: Dexmedetomidine	Catalogue code: SP-D12-102
 <p>1-benzyl-5-(1-(2,3-dimethylphenyl)vinyl)-1H-imidazole</p>	Molecular Formula: C ₂₀ H ₂₀ N ₂ Molecular Weight: 288 Da CAS No: N/A

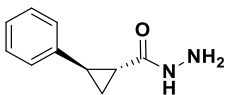
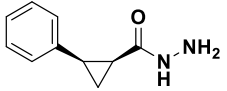
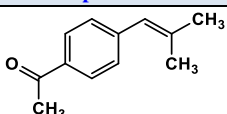
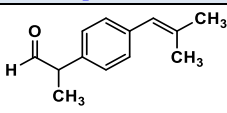
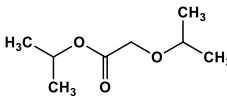
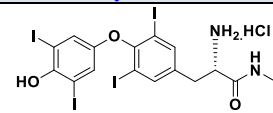
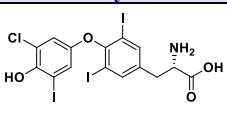
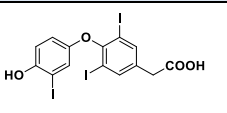
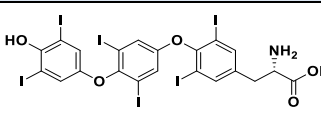
5-[1-(2,3-dimethylphenyl)ethyl]-1-ethyl-1H-imidazole API: Dexmedetomidine	Catalogue code: SP-D12-103
 <p>5-[1-(2,3-dimethylphenyl)ethyl]-1-ethyl-1H-imidazole</p>	Molecular Formula: C ₁₅ H ₂₀ N ₂ Molecular Weight: 228 Da CAS No: N/A
1-(1-benzyl-1H-imidazol-5-yl)-1-(2,3-dimethylphenyl)ethanol API: Dexmedetomidine	Catalogue code: SP-D12-104
 <p>1-(1-benzyl-1H-imidazol-5-yl)-1-(2,3-dimethylphenyl)ethanol</p>	Molecular Formula: C ₂₀ H ₂₂ N ₂ O Molecular Weight: 306 Da CAS No: N/A
Emtricitabine Enantiomer Impurity API: Emtricitabine	Catalogue Code: SP-E1-101
 <p>4-amino-5-fluoro-1-((2S,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one</p>	Molecular Formula: C ₈ H ₁₀ FN ₃ O ₃ S Molecular Weight: 247.25 Da CAS No: 145416-34-8
Emtricitabine (RR) acid Impurity API: Emtricitabine	Catalogue Code: SP-E1-102
 <p>(2R,5R)-5-(4-amino-5-fluoro-2-oxypyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylic acid</p>	Molecular Formula: C ₈ H ₈ FN ₃ O ₄ S Molecular Weight: 261.23 Da CAS No: 1238210-10-0
Eszopiclone EP Impurity C API: Eszopiclone	Catalogue Code: SP-E2-101
 <p>6-(5-chloropyridin-2-yl)-6,7-dihydro-5H-pyrrolo[3,4-b]pyrazin-5-one</p>	Molecular Formula: C ₁₁ H ₇ ClN ₄ O Molecular Weight: 246.65 Da CAS No: 148891-53-6
Ethinylestradiol EP Impurity C API: Ethinylestradiol	Catalogue Code: SP-E3-101
 <p>3-hydroxy-13-methyl-7,8,9,11,12,13,15,16-octahydro-6H-cyclopenta[a]phenanthren-17(14H)-one</p>	Molecular Formula: C ₁₈ H ₂₂ O ₂ Molecular Weight: 270.37 Da CAS No: 53-16-7
Ethinylestradiol EP Impurity D API: Ethinylestradiol	Catalogue Code: SP-E3-102
 <p>13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthrene-3,17-diol</p>	Molecular Formula: C ₁₈ H ₂₄ O ₂ Molecular Weight: 272.38 Da CAS No: 50-28-2
Enalapril Impurity E API: Enalapril	Catalogue Code: SP-E4-101
 <p>(S)-1-((2R,4R)-2-methyl-4-(phenethoxycarbonyl)-6-phenylhexanoyl)pyrrolidine-2-carboxylic acid</p>	Molecular Formula: C ₂₆ H ₃₂ N ₂ O ₅ Molecular Weight: 451.55 Da CAS No: N/A

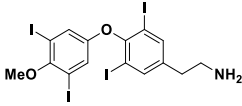
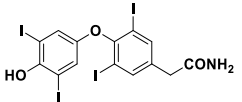
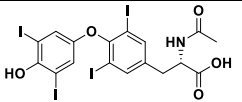
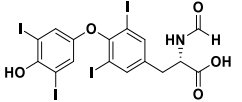
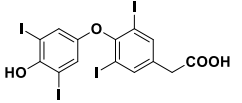
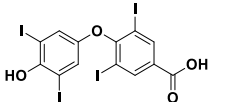
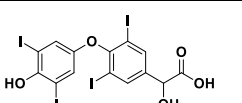
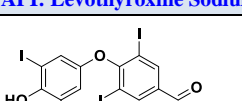
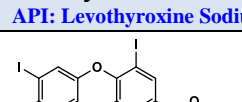
Ethacrynic acid Impurity B API: Ethacrynic acid	Catalogue Code: SP-E5-101
 <p>[[2,3-dichloro-4-(2-hydroxymethyl-1-oxybutyl) phenoxy]acetic acid]</p>	Molecular Formula: C ₁₃ H ₁₄ Cl ₂ O ₅ Molecular Weight: 320 Da CAS No: 95772-54-6
Eluxadoline (RR) Isomer API: Eluxadoline	Catalogue Code: SP-E6-101
 <p>5-(((2R)-2-amino-3-(4-carbamoyl-2,6-dimethylphenyl)-N-((R)-1-(4-phenyl-1H-imidazol-2-yl)ethyl)propanamido) methyl)-2-methoxybenzoic acid</p>	Molecular Formula: C ₃₂ H ₃₅ N ₅ O ₅ Molecular Weight: 569.65 Da CAS No: 1052250-94-8
Eluxadoline (SR) Isomer API: Eluxadoline	Catalogue Code: SP-E6-102
 <p>5-(((2S)-2-amino-3-(4-carbamoyl-2,6-dimethylphenyl)-N-((R)-1-(4-phenyl-1H-imidazol-2-yl)ethyl)propanamido) methyl)-2-methoxybenzoic acid</p>	Molecular Formula: C ₃₂ H ₃₅ N ₅ O ₅ Molecular Weight: 569.65 Da CAS No. N/A
Eluxadoline (RS) Isomer API: Eluxadoline	Catalogue Code: SP-E6-103
 <p>5-(((2R)-2-amino-3-(4-carbamoyl-2,6-dimethylphenyl)-N-((S)-1-(4-phenyl-1H-imidazol-2-yl)ethyl)propanamido) methyl)-2-methoxybenzoic acid</p>	Molecular Formula: C ₃₂ H ₃₅ N ₅ O ₅ Molecular Weight: 569.65 Da CAS No: N/A
Efinaconazole (RS) Diastereomer API: Efinaconazole	Catalogue Code: SP-E7-101
 <p>(2R,3S)-2-(2,4-difluorophenyl)-3-(4-methylenepiperidin-1-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol</p>	Molecular Formula: C ₁₈ H ₂₂ F ₂ N ₄ O Molecular Weight: 348.39 Da CAS No: N/A
Efinaconazole (SR) Diastereomer API: Efinaconazole	Catalogue Code: SP-E7-102
 <p>(2S,3R)-2-(2,4-difluorophenyl)-3-(4-methylenepiperidin-1-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol</p>	Molecular Formula: C ₁₈ H ₂₂ F ₂ N ₄ O Molecular Weight: 348.39 Da CAS No: N/A
Epinephrine Impurity B API: Epinephrine	Catalogue Code: SP-E8-101
 <p>4-(2-amino-1-hydroxyethyl)benzene-1,2-diol]</p>	Molecular Formula: C ₈ H ₁₁ NO ₃ Molecular Weight: 169 Da CAS No: 51-41-2

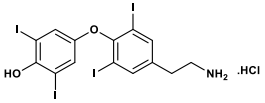
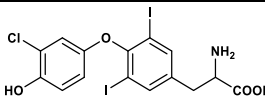
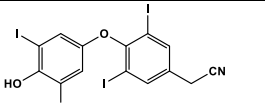
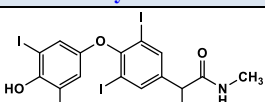
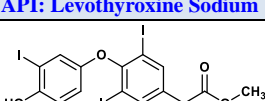
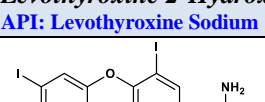
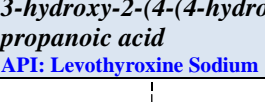
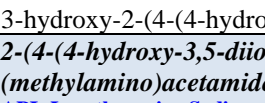
Epinephrine Impurity C API: Epinephrine	Catalogue Code: SP-E8-102
 [1-(3,4-dihydroxyphenyl)-2-(methylamino)ethanone]	Molecular Formula: C ₉ H ₁₁ NO ₃ Molecular Weight: 181 Da CAS No: 62-13-5
Epinephrine Impurity D API: Epinephrine	Catalogue code: SP-E8-103
 [4-(2-(N-benzyl-N-methylamino)-1-hydroxyethyl)benzene-1,2-diol]	Molecular Formula: C ₂₅ H ₂₄ N ₆ O ₄ Molecular Weight: 273.33 Da CAS No: 1095714-91-2
Epinephrine Impurity E API: Epinephrine	Catalogue Code: SP-E8-104
 [2-(N-benzyl-N-methylamino)-1-(3,4-dihydroxyphenyl)ethanone]	Molecular Formula: C ₁₆ H ₁₇ NO ₃ Molecular Weight: 271 Da CAS No: 36467-25-1
Epinephrine Impurity F API: Epinephrine	Catalogue Code: SP-E8-105
 1-(3,4-dihydroxyphenyl)-2-(methylamino)ethane sulfonic acid	Molecular Formula: C ₉ H ₁₃ NO ₅ S Molecular Weight: 247 Da CAS No: 78995-75-2
Epinephrine Thiosulfonic Acid API: Epinephrine	Catalogue Code: SP-E8-106
 [S-1-(3,4-dihydroxyphenyl)-2-(methylamino)ethyl O-hydrogen sulfothioate]	Molecular Formula: C ₉ H ₁₃ NO ₅ S ₂ Molecular Weight: 279.33 CAS No: N/A
[(1R,2S) Ephedrine] API: Ephedrine	Catalogue Code: SP-E9-101
 [(1R,2S)-2-(methylamino)-1-phenylpropan-1-ol]	Molecular Formula: C ₁₀ H ₁₅ NO Molecular Weight: 165.23 CAS No: 299-42-3
[(1S,2R)Ephedrine] API: Ephedrine	Catalogue Code: SP-E9-102
 [(1S,2R)-2-(methylamino)-1-phenylpropan-1-ol]	Molecular Formula: C ₁₀ H ₁₅ NO Molecular Weight: 165.23 CAS No: 24221-86-1
[(1R,2R) Pseudoephedrine] API: Ephedrine	Catalogue Code: SP-E9-103
 [(1R,2R)-2-(methylamino)-1-phenylpropan-1-ol]	Molecular Formula: C ₁₀ H ₁₅ NO Molecular Weight: 165.23 CAS No: 321-97-1

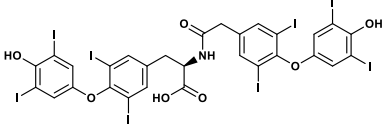
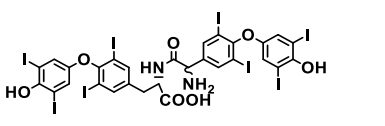
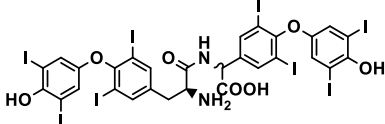
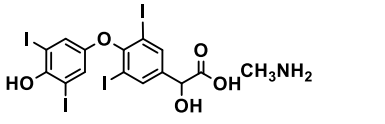
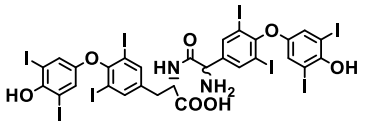
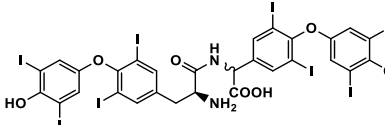
<p>[(1S,2S) Pseudoephedrine] API: Ephedrine</p>	<p>Catalogue Code:SP-E9-104</p>
 <p>[(1S,2S)-2-(methylamino)-1-phenylpropan-1-ol]</p>	<p>Molecular Formula: C₁₀H₁₅NO Molecular Weight: 165.23 CAS No: 90-82-4</p>
<p>N-formyl fluoxetine API: Fluoxetine</p>	<p>Catalogue Code:SP-F1-101</p>
 <p>N-methyl-N-(3-phenyl-3-(4-(trifluoromethyl)phenoxy)propyl)Formamide</p>	<p>Molecular Formula: C₁₈H₁₈F₃NO₂ Molecular Weight: 337.34 Da CAS No:199188-97-1</p>
<p>Flutamide EP Impurity C API: Flutamide</p>	<p>Catalogue Code:SP-F2-101</p>
 <p>N-(4-nitro-3-(trifluoromethyl)phenyl)propionamide</p>	<p>Molecular Formula: C₁₀H₉F₃N₂O₃ Molecular Weight: 262.19 Da CAS No: 13312-12-4</p>
<p>Gemcitabine EP Impurity C API: Gemcitabine</p>	<p>Catalogue Code:SP-G1-101</p>
 <p>1-((2R,4R,5R)-3,3-difluoro-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidine-2,4(1H,3H)-dione</p>	<p>Molecular Formula: C₉H₁₀F₂N₂O₅ Molecular Weight: 264.18 Da CAS No: 114248-23-6</p>
<p>Gemcitabine Cytosine API: Gemcitabine</p>	<p>Catalogue Code:SP-G1-102</p>
 <p>6-aminopyrimidin-2(1H)-one</p>	<p>Molecular Formula: C₄H₅N₃O Molecular Weight: 111.10 Da CAS No: N/A</p>
<p>Gatifloxacin Despropylene Impurity API: Gatifloxacin</p>	<p>Catalogue Code:SP-G2-101</p>
 <p>7-(2-aminoethylamino)-1-cyclopropyl-6-fluoro-8-methoxy-4-oxo-1,4-dihydroquinoline-3-carboxylic acid</p>	<p>Molecular Formula: C₁₆H₁₈FN₃O₄ Molecular Weight: 335.33 Da CAS No: 172426-86-7</p>
<p>Gatifloxacin Desethylene Impurity API: Gatifloxacin</p>	<p>Catalogue Code:SP-G2-102</p>
 <p>7-(2-aminopropylamino)-1-cyclopropyl-6-fluoro-8-methoxy-4-oxo-1,4-dihydroquinoline-3-carboxylic acid</p>	<p>Molecular Formula: C₁₇H₂₀FN₃O₄ Molecular Weight: 349.36 Da CAS No: 172426-87-8</p>
<p>Gatifloxacin USP Impurity C API: Gatifloxacin</p>	<p>Catalogue Code:SP-G2-103</p>
 <p>1-cyclopropyl-6,7-difluoro-8-methoxy-4-oxo-1,4-dihydroquinoline-3-carboxylic acid</p>	<p>Molecular Formula: C₁₄H₁₁F₂NO₄ Molecular Weight: 295.24 Da CAS No: 112811-72-0</p>

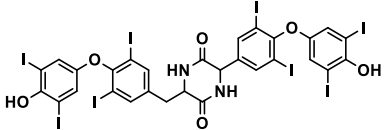
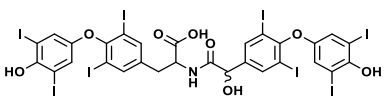
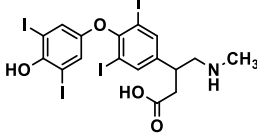
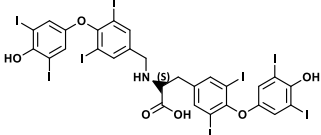
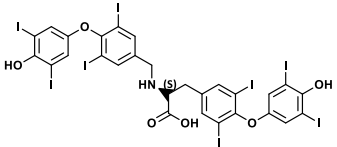
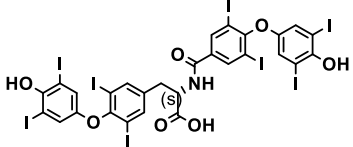
Haloperidol decanoate EP Impurity F API: Haloperidol	Catalogue Code: SP-H1-101
 <p>4-(3'-chlorobiphenyl-4-yl)-1-(4-(4-fluorophenyl)-4-oxobutyl)piperidin-4-yl decanoate</p>	Molecular Formula: C ₃₇ H ₄₅ ClFNO ₃ Molecular Weight: 606.21 Da CAS No: 1797131-50-0
Haloperidol EP Impurity F API: Haloperidol	Catalogue Code: SP-H1-102
 <p>4-(4-(3'-chlorobiphenyl-4-yl)-4-hydroxypiperidin-1-yl)-1-(4-fluorophenyl)butan-1-one</p>	Molecular Formula: C ₂₇ H ₂₇ ClFNO ₂ Molecular Weight: 451.96 Da CAS No: 1391052-67-7
Haloperidol decanoate Impurity C API: Haloperidol	Catalogue code: SP-H1-103
 <p>4-(4-chlorophenyl)-1-(4-(3-ethyl-4-fluorophenyl)-4-oxobutyl)piperidin-4-yl decanoate</p>	Molecular Formula: C ₃₃ H ₄₅ ClFNO ₃ Molecular Weight: 558.17 Da CAS No: N/A
Hydroxyuridine / Sofosbuvir Impurity 12 API: Hydroxyuridine	Catalogue Code: SP-H2-101
 <p>1-((2R,3S,4R,5R)-3,4-dihydroxy-5-(hydroxymethyl)-3-methyltetrahydrofuran-2-yl)pyrimidine-2,4(1H,3H)-dione</p>	Molecular Formula: C ₁₀ H ₁₄ N ₂ O ₆ Molecular Weight: 258.23 Da CAS No: 114262-49-6
Hydralazine Lactose adduct API: Hydralazine	Catalogue Code: SP-H3-101
 <p>2-[4,5-dihydroxy-2-hydroxymethyl-6(N'-phthalazin-1-ylhydrazino)-tetrahydro-pyran-3-yloxy]-6-hydroxymethyl-tetrahydro-pyran-3,4,5-triol</p>	Molecular Formula: C ₂₀ H ₂₈ N ₄ O ₁₀ Molecular Weight: 484.46 Da CAS No: N/A
Hydroxyprogesterone epoxy Impurity API: Hydroxyprogesterone	Catalogue Code: SP-H4-101
	Molecular Formula: C ₂₇ H ₄₀ O ₅ Molecular Weight: 444 Da CAS No: N/A
Hydroxyprogesterone Compound 1(MW 430Da) API: Hydroxyprogesterone	Catalogue Code: SP-H4-102
 <p>(10R,13S,17R)-17-acetyl-3-hydroxy-10,13-dimethyl-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl hexanoate</p>	Molecular Formula: C ₂₇ H ₄₂ O ₄ Molecular Weight: 430 Da CAS No: N/A

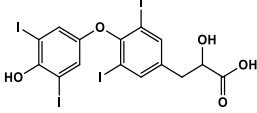
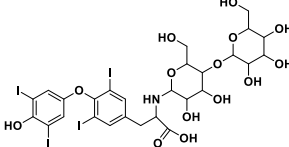
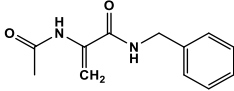
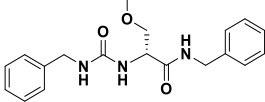
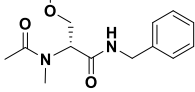
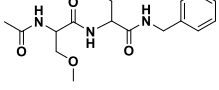
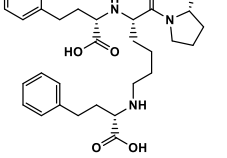
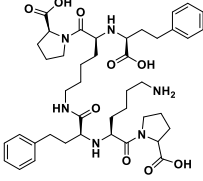
Trans-Hydrazide API: Hydrazide	Catalogue Code: SP-H5-101
 [(1R,2R)-2-phenylcyclopropanecarbohydrazide]	Molecular Formula: C ₁₀ H ₁₂ N ₂ O Molecular Weight: 176 Da CAS No: 14561-40-1
Cis-Hydrazide API: Hydrazide	Catalogue Code: SP-H5-102
 [(1S,2R)-2-phenylcyclopropanecarbohydrazide]	Molecular Formula: C ₁₀ H ₁₂ N ₂ O Molecular Weight: 176 Da CAS No: NA
Keto Butylene API: Ibuprofen	Catalogue Code: SP-I1-101
 1-(4-(2-methylprop-1-enyl)phenyl)ethanone	Molecular Formula: C ₁₂ H ₁₄ O Molecular Weight: 174.24 Da CAS No: N/A
Ibuprofen Aldehyde Impurity API: Ibuprofen	Catalogue Code: SP-I1-102
 2-(4-(2-methylprop-1-enyl)phenyl)propanal	Molecular Formula: C ₁₃ H ₁₆ O Molecular Weight: 188.12 Da CAS No: N/A
Ibuprofen IPA Impurity API: Ibuprofen	Catalogue Code: SP-I1-103
 isopropyl 2-isopropoxyacetate	Molecular Formula: C ₈ H ₁₆ O ₃ Molecular Weight: 160.21 Da CAS No: N/A
Levothyroxine N-Methyl Amide Impurity API: Levothyroxine Sodium	Catalogue Code: SP-L1-101
 (S)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-amino-N-methylpropanamide hydrochloride	Molecular Formula: C ₁₆ H ₁₅ ClI ₄ N ₂ O ₃ Molecular Weight: 825 Da CAS No: N/A
Levothyroxine EP Impurity B API: Levothyroxine Sodium	Catalogue Code: SP-L1-102
 (S)-2-amino-3-(4-(3-chloro-4-hydroxy-5-iodophenoxy)-3,5-diiodophenyl)propanoic acid	Molecular Formula: C ₁₅ H ₁₁ ClI ₃ NO ₄ Molecular Weight: 685.42 Da CAS No: 1628720-66-0
Levothyroxine Impurity C API: Levothyroxine Sodium	Catalogue Code: SP-L1-103
 2-(4-(4-hydroxy-3-iodophenoxy)-3,5-diiodophenyl)acetic acid	Molecular Formula: C ₁₄ H ₉ I ₃ O ₄ Molecular Weight: 622 Da CAS No: 51-24-1
Levothyroxine EP Impurity F API: Levothyroxine Sodium	Catalogue Code: SP-L1-104
 (R)-2-amino-2-(4-(4-(4-hydroxy-3,5-dimethylphenoxy)-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid	Molecular Formula: C ₂₁ H ₁₃ I ₆ NO ₅ Molecular Weight: 1120.76 Da CAS No: 911661-90-0

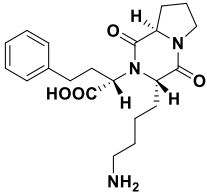
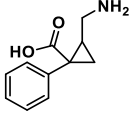
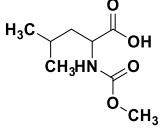
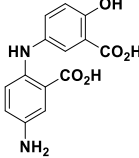
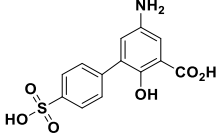
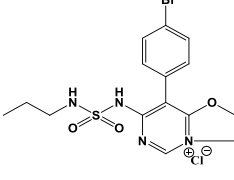
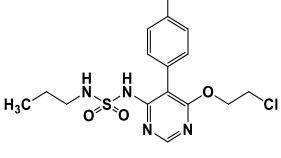
Levothyroxine Impurity 5 API: Levothyroxine Sodium	Catalogue Code: SP-L1-105
 <p>2-(4-(3,5-diiodo-4-methoxyphenoxy)-3,5-diiodophenyl)ethanamine</p>	Molecular Formula: C ₁₅ H ₁₃ I ₄ NO ₂ Molecular Weight: 746.89 Da CAS No: N/A
Levothyroxine acetamide Impurity API: Levothyroxine Sodium	Catalogue Code: SP-L1-106
 <p>2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamide</p>	Molecular Formula: C ₁₄ H ₉ I ₄ NO ₃ Molecular Weight: 746.84 Da CAS No: 176258-88-1
Levothyroxine N-acetamide Impurity API: Levothyroxine Sodium	Catalogue Code: SP-L1-107
 <p>(S)-2-acetamido-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid</p>	Molecular Formula: C ₁₇ H ₁₃ I ₄ NO ₅ Molecular Weight: 818.91 Da CAS No: 26041-51-0
Levothyroxine N- formamide Impurity API: Levothyroxine Sodium	Catalogue Code: SP-L1-108
 <p>(S)-2-formamido-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid</p>	Molecular Formula: C ₁₆ H ₁₁ I ₄ NO ₅ Molecular Weight: 804.88 Da CAS No: 671235-41-9
Levothyroxine EP Impurity D / T4-Acetic Acid (USP) API: Levothyroxine Sodium	Catalogue Code: SP-L1-109
 <p>2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid</p>	Molecular Formula: C ₁₄ H ₈ I ₄ O ₄ Molecular Weight: 747.83 Da CAS No: 67-30-1
Levothyroxine EP Impurity H / T4-Benzoic Acid (USP) API: Levothyroxine Sodium	Catalogue Code: SP-L1-110
 <p>4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzoic acid</p>	Molecular Formula: C ₁₃ H ₆ I ₄ O ₄ Molecular Weight: 733.80 CAS No: 2055-97-2
Levothyroxine T4-Hydroxyacetic acid API: Levothyroxine Sodium	Catalogue Code: SP-L1-111
 <p>2-hydroxy-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid</p>	Molecular Formula: C ₁₄ H ₈ I ₄ O ₅ Molecular Weight: 763.83 Da CAS No: 93647-48-4
Levothyroxine EP Impurity I / T4-Aldehyde (USP) API: Levothyroxine Sodium	Catalogue Code: SP-L1-112
 <p>4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzaldehyde</p>	Molecular Formula: C ₁₃ H ₆ I ₄ O ₃ Molecular Weight: 717.80 Da CAS No: 2016-06-0
Levothyroxine T4-methyl formate API: Levothyroxine Sodium	Catalogue code: SP-L1-113
 <p>[methyl 4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzoate]</p>	Molecular Formula: C ₁₄ H ₈ I ₄ O ₄ Molecular Weight: 748 Da CAS No: N/A

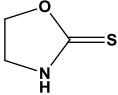
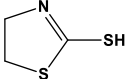
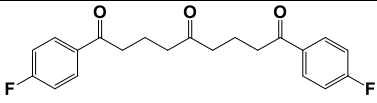
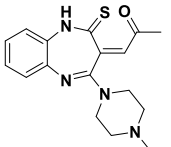
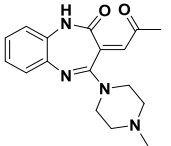
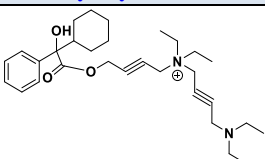
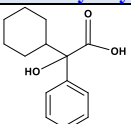
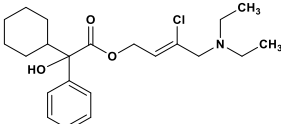
Levothyroxine T4-ethylamine.HCl API: Levothyroxine Sodium	Catalogue Code: SP-L1-114
 <p>4-(4-(2-aminoethyl)-2,6-diiodophenoxy)-2,6-diiodophenol.HCl</p>	Molecular Formula: C ₁₄ H ₁₁ I ₄ NO ₂ Molecular Weight: 733 Da CAS No: N/A
Levothyroxine Mono chloro (Ring-2) API: Levothyroxine Sodium	Catalogue Code: SP-L1-115
 <p>3-(4-(3-chloro-4-hydroxyphenoxy)-3,5-diiodophenyl)-2-aminopropanoic acid</p>	Molecular Formula: C ₁₅ H ₁₂ ClI ₂ NO ₄ Molecular Weight: 560 Da CAS No: N/A
Levothyroxine T4-Acetonitrile API: Levothyroxine Sodium	Catalogue Code: SP-L1-116
 <p>[2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetonitrile]</p>	Molecular Formula: C ₁₄ H ₇ I ₄ NO ₂ Molecular Weight: 729 Da CAS No: N/A
Levothyroxine 2-Hydroxy T4-Acetic acid-N-methyl amide API: Levothyroxine Sodium	Catalogue Code: SP-L1-117
 <p>[2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-hydroxy-N-methylacetamide]</p>	Molecular Formula: C ₁₅ H ₁₁ I ₄ NO ₄ Molecular Weight: 777Da CAS No: N/A
Levothyroxine 2-Hydroxy T4-Acetic acid-N-methyl ester API: Levothyroxine Sodium	Catalogue Code: SP-L1-118
 <p>[methyl 2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-hydroxyacetate]</p>	Molecular Formula: C ₁₅ H ₁₀ I ₄ O ₅ Molecular Weight: 778Da CAS No: N/A
Levothyroxine 2-Hydroxy T4-Acetamide API: Levothyroxine Sodium	Catalogue Code: SP-L1-119
 <p>[2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-hydroxyacetamide]</p>	Molecular Formula: C ₁₄ H ₉ I ₄ NO ₄ Molecular Weight: 763 Da CAS No: N/A
3-hydroxy-2-(4-(4-hydroxy-3, 5-diiodophenoxy)-3, 5-diiodophenyl) propanoic acid API: Levothyroxine Sodium	Catalogue Code: SP-L1-120
 <p>3-hydroxy-2-(4-(4-hydroxy-3, 5-diiodophenoxy)-3, 5-diiodophenyl) propanoic acid</p>	Molecular Formula: C ₁₅ H ₁₀ I ₄ O ₅ Molecular Weight: 778 Da CAS No: N/A
2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-N-methyl-2-(methylamino)acetamide API: Levothyroxine Sodium	Catalogue Code: SP-L1-121
 <p>2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-N-methyl-2-(methylamino)acetamide</p>	Molecular Formula: C ₁₆ H ₁₄ I ₄ N ₂ O ₃ Molecular Weight: 790 Da CAS No: N/A

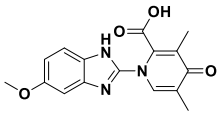
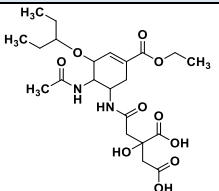
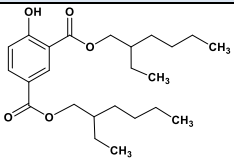
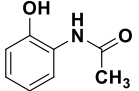
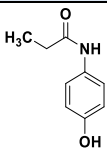
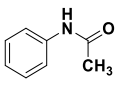
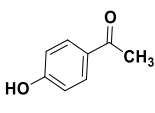
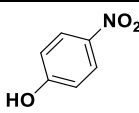
<p>3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-(2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)propanoic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-122</p>
 <p>3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-(2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)propanoic acid</p>	<p>Molecular Formula: C₂₉H₁₇I₈NO₇ Molecular Weight: 1506 Da CAS No: N/A</p>
<p>2-(2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-123</p>
 <p>2-(2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid</p>	<p>Molecular Formula: C₂₉H₁₈I₈N₂O₇ Molecular Weight: 1521.7 Da CAS No: N/A</p>
<p>2-(2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-124</p>
 <p>2-(2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid</p>	<p>Molecular Formula: C₂₉H₁₈I₈N₂O₇ Molecular Weight: 1521.7 Da CAS No: N/A</p>
<p>Levothyroxine 2-hydroxy T4-acetic acid/T-4 hydroxy acetic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-125</p>
 <p>2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-hydroxyacetic acid</p>	<p>Molecular Formula: C₁₅H₁₃I₄NO₅ Molecular Weight: 794.89 Da CAS No: N/A</p>
<p>2-((S))-2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-126</p>
 <p>2-((S))-2-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid</p>	<p>Molecular Formula: C₂₉H₁₈I₈N₂O₇ Molecular Weight: 1521.7 Da CAS No: N/A</p>
<p>2-((S))-2-amino-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanamido)-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-127</p>
 <p>2-((S))-2-amino-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanamido)-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetic acid</p>	<p>Molecular Formula: C₂₉H₁₈I₈N₂O₇ Molecular Weight: 1521.7 Da CAS No: N/A</p>

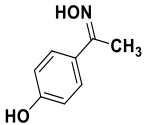
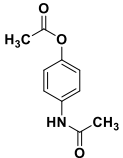
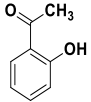
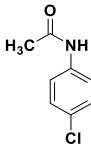
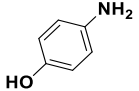
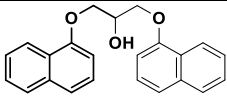
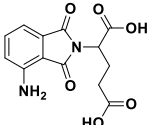
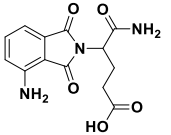
<p>3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzyl)-6-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)piperazine-2,5-dione API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-128</p>
 <p>3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzyl)-6-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)piperazine-2,5-dione</p>	<p>Molecular Formula: C₂₉H₁₆I₈N₂O₆ Molecular Weight: 1503.68 Da CAS No: N/A</p>
<p>2-(2-hydroxy-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-129</p>
 <p>2-(2-hydroxy-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)acetamido)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid</p>	<p>Molecular Formula: C₂₉H₁₇I₈NO₈ Molecular Weight: 1522.68 Da CAS No: N/A</p>
<p>3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-4-(methylamino)butanoic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-130</p>
 <p>3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-4-(methylamino)butanoic acid</p>	<p>Molecular Formula: C₁₇H₁₈I₄NO₄ Molecular Weight: 804.92Da CAS No: N/A</p>
<p>3-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-N-methylpropanamide API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-131</p>
 <p>3-amino-2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-N-methylpropanamide</p>	<p>Molecular Formula: C₁₆H₁₄I₄N₂O₃ Molecular Weight: 789.91Da CAS No: N/A</p>
<p>(2-((4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzyl)amino)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-132</p>
 <p>(2-((4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzyl)amino)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid</p>	<p>Molecular Formula: C₂₈H₁₇I₈NO₆S Molecular Weight: 1510.74 Da CAS No: N/A</p>
<p>2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzamido)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid (Amide-bridged) API: Levothyroxine Sodium</p>	<p>Catalogue Code:SP-L1-133</p>
 <p>2-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzamido)-3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)propanoic acid (Amide-bridged)</p>	<p>Molecular Formula: C₂₈H₁₅I₈NO₇ Molecular Weight: 1492.66 Da CAS No: N/A</p>

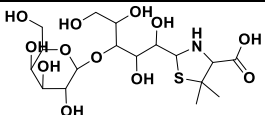
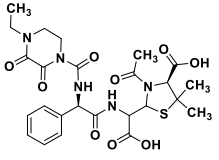
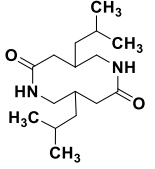
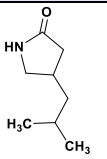
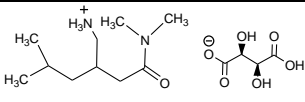
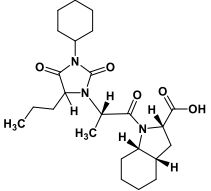
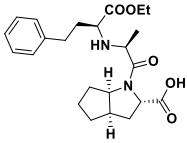
3,5,3',5'-Tetraiodo thyrolactic acid API: Levothyroxine Sodium	Catalogue Code: SP-L1-134
 <p>[3-(4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl)-2-hydroxypropanoic acid]</p>	Molecular Formula: C ₁₅ H ₁₀ I ₄ O ₅ Molecular Weight: 778 Da CAS No: N/A
Levothyroxine Lactose Adduct Impurity API: Levothyroxine Sodium	Catalogue Code: SP-L1-135
	Molecular Formula: C ₂₇ H ₃₁ I ₄ NO ₄ Molecular Weight: 1101.15 Da CAS No: N/A
Lacosamide Impurity K API: Lacosamide	Catalogue Code: SP-L2-101
 <p>2-acetamido-N-benzylacrylamide</p>	Molecular Formula: C ₁₂ H ₁₄ N ₂ O ₂ Molecular Weight: 218.25 Da CAS No: 86921-49-5
Lacosamide Impurity I API: Lacosamide	Catalogue Code: SP-L2-102
 <p>(R)-N-benzyl-2-(3-benzylureido)-3-methoxypropanamide</p>	Molecular Formula: C ₁₉ H ₂₃ N ₃ O ₃ Molecular Weight: 341.40 Da CAS No: N/A
Lacosamide Impurity C API: Lacosamide	Catalogue Code: SP-L2-103
 <p>(R)-N-benzyl-3-methoxy-2-(N-methylacetamido)propanamide</p>	Molecular Formula: C ₁₄ H ₂₀ N ₂ O ₃ Molecular Weight: 264.32 Da CAS No: N/A
Lacosamide Impurity H API: Lacosamide	Catalogue Code: SP-L2-104
 <p>2-acetamido-N-(1-(benzylamino)-3-methoxy-1-oxopropan-2-yl)-3-methoxypropanamide</p>	Molecular Formula: C ₁₇ H ₂₅ N ₃ O ₅ Molecular Weight: 351.40 Da CAS No: N/A
Lisinopril N-Alkyl Impurity API: Lisinopril	Catalogue Code: SP-L3-101
 <p>1-[2,6-Bis-(1-carboxy-3-phenyl-propylamino)-hexanoyl]-pyrrolidine-2-carboxylic acid</p>	Molecular Formula: C ₃₁ H ₄₁ N ₃ O ₇ Molecular Weight: 567 Da CAS No: N/A
Lisinopril EP Impurity G (Dimer Impurity) API: Lisinopril	Catalogue Code: SP-L3-102
 <p>(2R)-1-[(2S)-6-amino-2-[[[(2S)-1-[[[(5S)-5-[[[(1S)(2R)n-1-yl]-6-oxohexyl]amino]-1-oxo-4-phenylbutan-2-yl]amino]hexanoyl]pyrrolidine-2-carboxylic acid</p>	Molecular Formula: C ₄₂ H ₆₀ N ₆ O ₉ Molecular Weight: 792 Da CAS No: 1356839-89-8

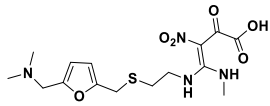
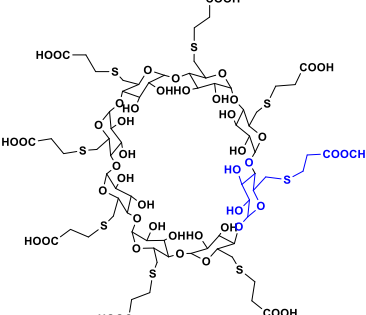
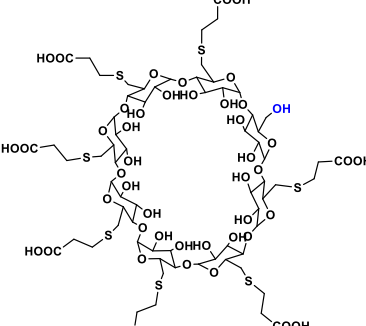
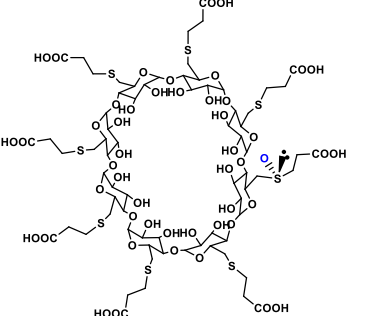
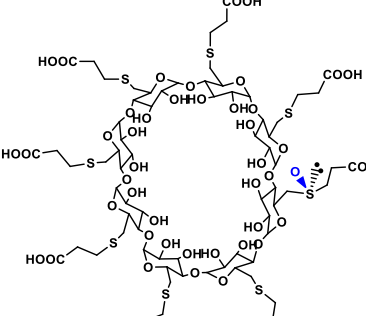
R, S, S-diketopiperazine Lisinopril Impurity API: Lisinopril	Catalogue Code: SP-L3-103
 <p>(S)-2-((3S,8aR)-3-(4-aminobutyl)-hexahydro-1,4-dioxopyrrolo[1,2-a]pyrazin-2(1H)-yl)-4-phenylbutanoic acid</p>	Molecular Formula: C ₂₁ H ₂₉ N ₃ O ₄ Molecular Weight: 387 Da CAS No: 1092813-99-4
Levomilnacipran Impurity API: Levomilnacipran	Catalogue Code: SP-L4-101
 <p>2-(aminomethyl)-1-phenylcyclopropane carboxylic acid</p>	Molecular Formula: C ₁₁ H ₁₃ NO ₂ Molecular Weight: 191 Da CAS No: N/A
N-Methoxycarbonyl-L-Leucine API: Leucine	Catalogue code: SP-L5-101
 <p>[2-[(methoxycarbonyl)amino]-4-methylpentanoic acid]</p>	Molecular Formula: C ₈ H ₁₅ NO ₄ Molecular Weight: 189 Da CAS No: 74761-37-8
Mesalamine EP Impurity S API: Mesalamine	Catalogue Code: SP-M1-101
 <p>5-amino-2-(3-carboxy-4-hydroxyphenylamino)benzoic acid</p>	Molecular Formula: C ₁₄ H ₁₂ N ₂ O ₅ Molecular Weight: 288.26 Da CAS No: 1797983-23-3
Mesalamine EP Impurity P API: Mesalamine	Catalogue Code: SP-M1-102
 <p>5-amino-2-hydroxy-4'-sulfobiphenyl-3-carboxylic acid</p>	Molecular Formula: C ₁₃ H ₁₁ NO ₆ S Molecular Weight: 309.29 Da CAS No: 887256-40-8
Cyclic Macitentan quarternary salt Impurity API: Macitentan	Catalogue Code: SP-M2-101
 <p>8-(4-bromophenyl)-7-[(propylsulfamoyl)amino]-2,3-dihydro[1,3]oxazolo[3,2-c]pyrimidin-4-ium chloride</p>	Molecular Formula: C ₁₅ H ₁₈ BrN ₄ O ₃ S ⁺ Molecular Weight: 413 Da CAS No: N/A
Macitentan desbromo pyrimidine Impurity API: Macitentan	Catalogue Code: SP-M2-102
 <p>N-[5-(4-bromophenyl)-6-(2-chloroethoxy)pyrimidin-4-yl]-N'-propylsulfuricdiamide</p>	Molecular Formula: C ₁₅ H ₁₈ BrClN ₄ O ₃ S Molecular Weight: 449 Da CAS No: N/A

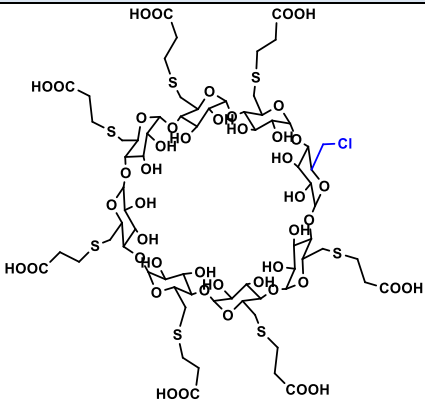
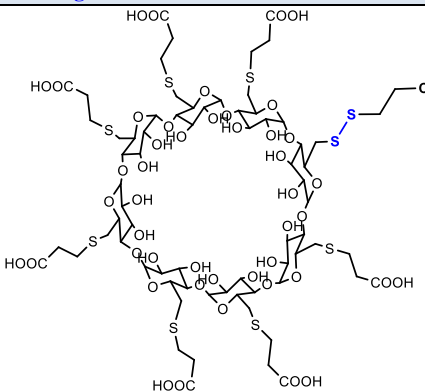
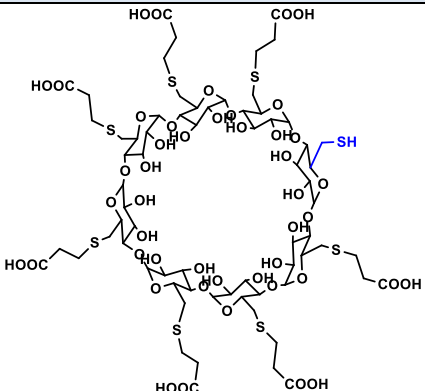
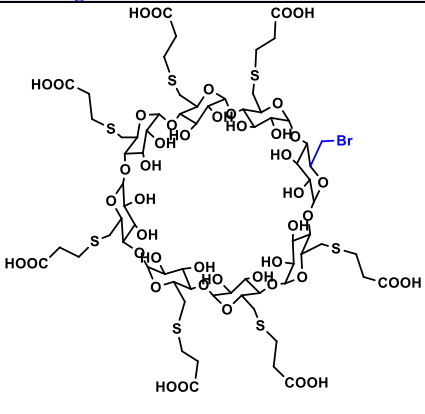
Oxazolidinone -1,3-Oxazolidone-2-thione API: Oxazolidinone	Catalogue Code: SP-O1-101
 oxazolidine-2-thione	Molecular Formula: C ₃ H ₅ NOS Molecular Weight: 103.14 Da CAS No: 5840-81-3
Oxazolidinone -2-thiazoline-2-thiol API: Oxazolidinone	Catalogue Code: SP-O1-102
 4,5-dihydrothiazole-2-thiol	Molecular Formula: C ₃ H ₅ NS ₂ Molecular Weight: 119 Da CAS No: N/A
Oxazolidinone Dimer Impurity2 API: Oxazolidinone	Catalogue Code: SP-O1-103
 1,9-bis(4-fluorophenyl)nonane-1,5,9-trione	Molecular Formula: C ₂₁ H ₂₀ F ₂ O ₃ Molecular Weight: 358.38 Da CAS No: 914777-33-6
Olanzapine Impurity Thio Lactam (EP & USP) API: Olanzapine	Catalogue Code: SP-O2-101
 (Z)-1-(2-thioxo-4,5-dihydro-1H-benzo[b][1,4]diazepin-3(2H)-ylidene) propan-2-one	Molecular Formula: C ₁₇ H ₂₀ N ₄ OS Molecular Weight: 328.43 Da CAS No: 1017241-36-9
Olanzapine Impurity Lactam (EP & USP) API: Olanzapine	Catalogue Code: SP-O2-102
 (Z)-4-(4-methylpiperazin-1-yl)-3-(2-oxopropylidene)-1H-benzo[b][1,4]diazepin-2(3H)-one	Molecular Formula: C ₁₇ H ₂₀ N ₄ O ₂ Molecular Weight: 312.37 Da CAS No: 1017241-34-7
Oxybutynin Impurity (MW: 481Da) API: Oxybutynin	Catalogue Code: SP-O3-101
 4-(2-cyclohexyl-2-hydroxy-2-phenylacetoxy)-N-(4-(diethylamino)but-2-ynyl)-N,N-diethylbut-2-yn-1-aminium	Molecular Formula: C ₃₀ H ₄₅ N ₂ O ₃ Molecular Weight: 481.69 Da CAS No: N/A
Oxybutynin USP Related Compound A API: Oxybutynin	Catalogue Code: SP-O3-102
 [2-cyclohexyl-2-hydroxy-2-phenylacetic acid]	Molecular Formula: C ₁₄ H ₁₈ O ₃ Molecular Weight: 234 Da CAS No: 4335-77-7
Oxybutynin Impurity (MW 394Da) API: Oxybutynin	Catalogue Code: SP-O3-103
 [(Z)-3-chloro-4-(diethylamino)but-2-enyl 2-cyclohexyl-2-hydroxy-2-phenylacetate]	Molecular Formula: C ₂₂ H ₃₂ ClNO ₃ Molecular Weight: 394 Da CAS No: N/A

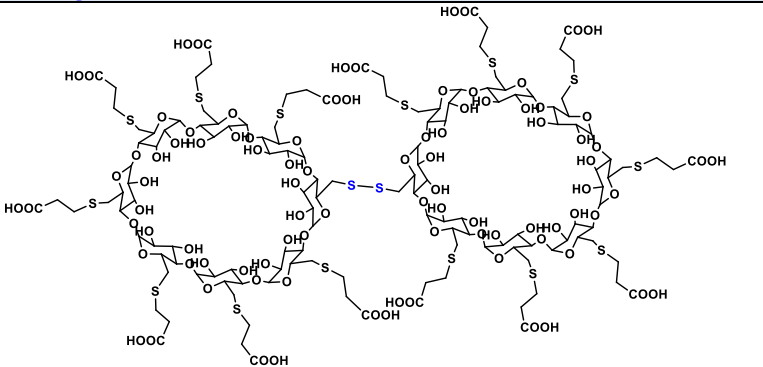
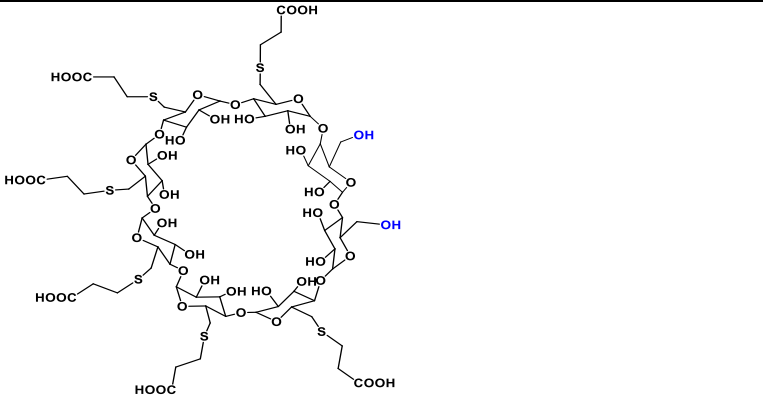
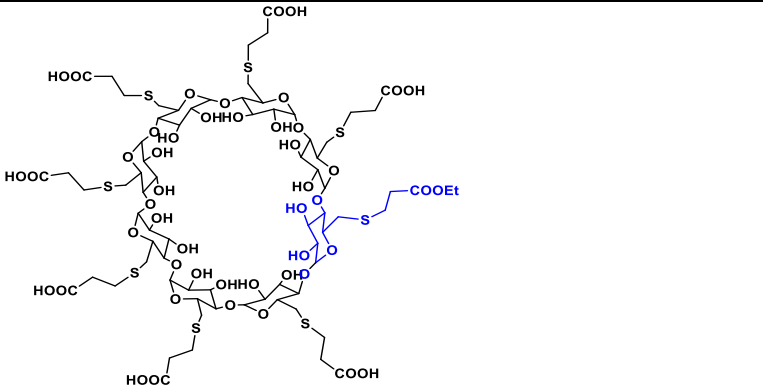
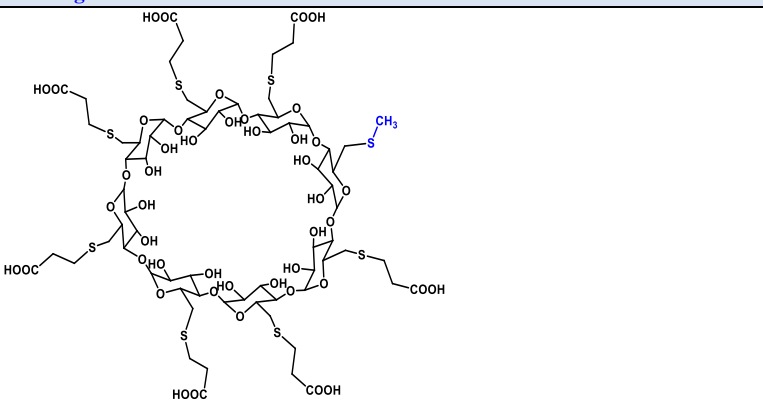
Omeprazole Impurity K API: Omeprazole	Catalogue code: SP-O4-101
 1-(5-methoxy-1H-benzodimidazol-2-yl)-3,5-dimethyl-4-oxo-1,4-dihydropyridine-2-carboxylic acid	Molecular Formula: C ₁₆ H ₁₅ N ₃ O ₄ Molecular Weight: 313.31 Da CAS No: 1227380-90-6
Oseltamivir Impurity Mixture (MW: 486 Da) API: Oseltamivir	Catalogue Code: SP-O5-101
	Molecular Formula: C ₂₂ H ₃₄ N ₂ O ₁₀ Molecular Weight: 486 Da CAS No: N/A
Octisalate Impurity (MW: 406Da) API: Octisalate	Catalogue Code: SP-O6-101
 [bis(2-ethylhexyl) 4-hydroxybenzene-1,3-dioat]	Molecular Formula: C ₂₄ H ₃₈ O ₅ Molecular Weight: 406 Da CAS No: N/A
Paracetamol EP Impurity A API: Paracetamol	Catalogue Code: SP-P1-101
 N-(2-hydroxyphenyl)acetamide	Molecular Formula: C ₈ H ₉ NO ₂ Molecular Weight: 151.16 Da CAS No: 614-80-2
Paracetamol EP Impurity B API: Paracetamol	Catalogue Code: SP-P1-102
 N-(4-hydroxyphenyl)propionamide	Molecular Formula: C ₉ H ₁₁ NO ₂ Molecular Weight: 165.19 Da CAS No: 1693-37-4
Paracetamol EP Impurity D API: Paracetamol	Catalogue Code: SP-P1-103
 N-phenylacetamide	Molecular Formula: C ₈ H ₉ NO Molecular Weight: 135.16 Da CAS No: 103-84-4
Paracetamol EP Impurity E API: Paracetamol	Catalogue Code: SP-P1-104
 1-(4-hydroxyphenyl)ethanone	Molecular Formula: C ₈ H ₈ O ₂ Molecular Weight: 136.15Da CAS No: 99-93-4
Paracetamol EP Impurity F API: Paracetamol	Catalogue Code: SP-P1-105
 4-nitrophenol	Molecular Formula: C ₆ H ₅ NO ₃ Molecular Weight: 139.11Da CAS No: 100-02-7

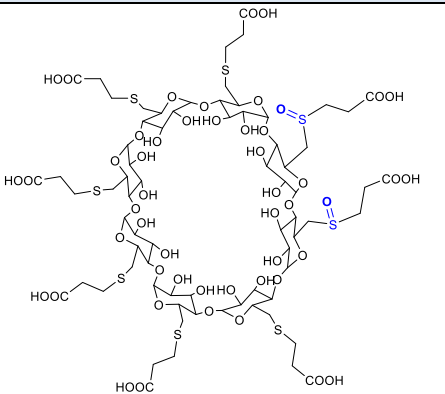
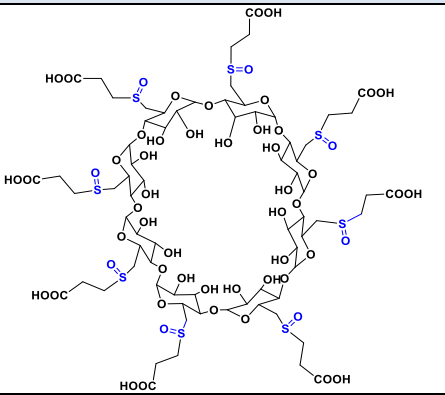
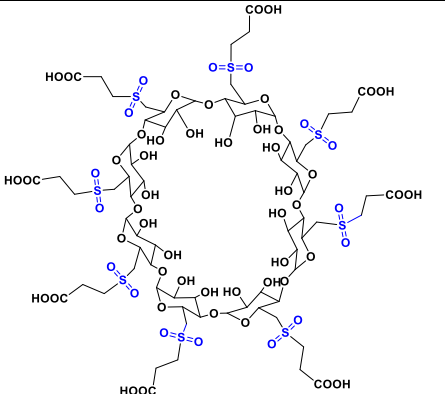
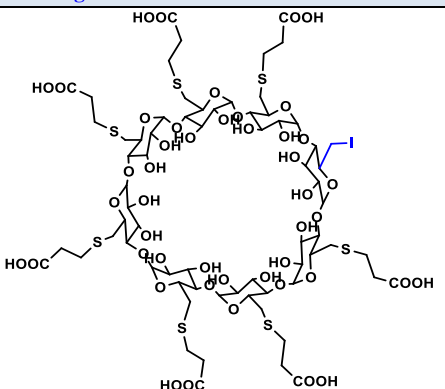
Paracetamol EP Impurity G API: Paracetamol	Catalogue Code: SP-P1-106
 1-(4-hydroxyphenyl)ethanone oxime	Molecular Formula: C ₈ H ₉ NO ₂ Molecular Weight: 151.16 Da CAS No: 34523-34-7
Paracetamol EP Impurity H API: Paracetamol	Catalogue Code: SP-P1-107
 4-acetamidophenyl acetate	Molecular Formula: C ₁₀ H ₁₁ NO ₃ Molecular Weight: 193.2 Da CAS No: 2623-33-8
Paracetamol EP Impurity I API: Paracetamol	Catalogue Code: SP-P1-108
 4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodobenzaldehyde	Molecular Formula: C ₈ H ₈ O ₂ Molecular Weight: 136.15 Da CAS No: 118-93-4
Paracetamol EP Impurity J API: Paracetamol	Catalogue Code: SP-P1-109
 N-(4-chlorophenyl)acetamide	Molecular Formula: C ₈ H ₈ ClNO Molecular Weight: 169.61 Da CAS No: 539-03-7
Paracetamol EP Impurity K API: Paracetamol	Catalogue Code: SP-P1-110
 4-aminophenol	Molecular Formula: C ₆ H ₇ NO Molecular Weight: 109.13 Da CAS No: 123-30-8
Propranolol Impurity API: Propranolol	Catalogue Code: SP-P2-101
 1,3-bis(naphthalen-1-yloxy)propan-2-ol	Molecular Formula: C ₂₃ H ₂₀ O ₃ Molecular Weight: 344.4 Da CAS No: 17216-10-3
Pomalidomide Ring open Diacid Impurity API: Pomalidomide	Catalogue Code: SP-P3-101
 2-(4-amino-1,3-dioxisoindolin-2-yl)pentanedioic acid	Molecular Formula: C ₁₃ H ₁₂ N ₂ O ₆ Molecular Weight: 292.24 Da CAS No: N/A
Pomalidomide Ring open amide acid Impurity API: Pomalidomide	Catalogue Code: SP-P3-102
 5-amino-4-(4-amino-1,3-dioxisoindolin-2-yl)-5-oxopentanoic acid	Molecular Formula: C ₁₃ H ₁₃ N ₃ O ₅ Molecular Weight: 291.26 Da CAS No: 918314-45-1

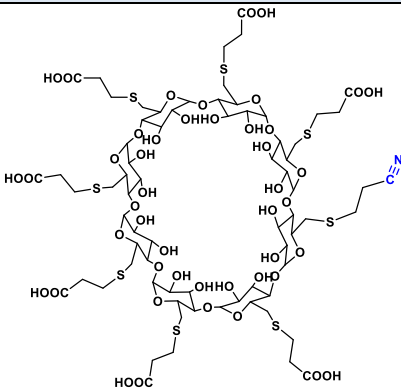
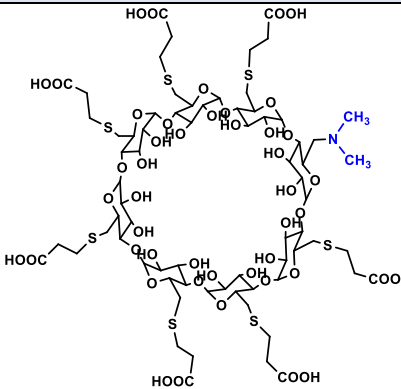
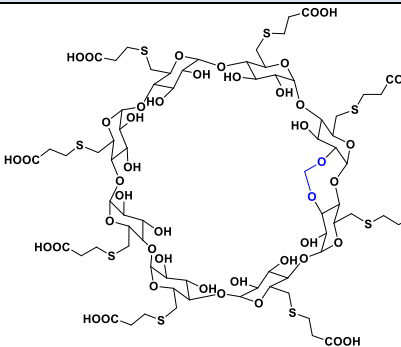
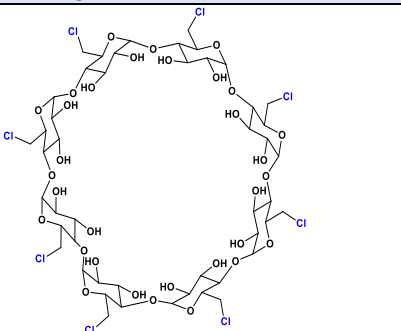
Penicillamine Impurity A API: Penicillamine	Catalogue Code: SP-P4-101
 <p>[5,5-dimethyl-2-(1,2,4,5-tetrahydroxy-3-((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6(hydroxymethyl)tetrahydro-2H-pyran-2-yloxy)pentyl)thiazolidine-4-carboxylic acid]</p>	Molecular Formula: C ₁₇ H ₃₁ NO ₁₂ Molecular Weight: 473 Da CAS No: N/A
Piperacillin Impurity F API: Piperacillin	Catalogue Code: SP-P5-101
 <p>[4S]-3-acetyl-2-(carboxy((R)-2-(4-ethyl-2,3-dioxopiperazine-1-carboxamido)-2phenylacetamido)methyl)-5,5-dimethylthiazolidine-4-carboxylic acid</p>	Molecular Formula: C ₂₅ H ₃₁ N ₅ O ₉ S Molecular Weight: 577 Da CAS No: N/A
Pregabalin Impurity 1 API: Pregabalin	Catalogue Code: SP-P6-101
 <p>[4,9-diisobutyl-1,6-diazecane-2,7-dione]</p>	Molecular Formula: C ₁₆ H ₃₀ N ₂ O ₂ Molecular Weight: 282 Da CAS No: 1990538-03-8
Pregabalin USP Related Compound C API: Pregabalin	Catalogue Code: SP-P6-102
 <p>[4-isobutylpyrrolidin-2-one]</p>	Molecular Formula: C ₈ H ₁₅ NO Molecular Weight: 141.21 Da CAS No: 61312-87-6
Pregabalin Amine Amide Impurity API: Pregabalin	Catalogue Code: SP-P6-103
 <p>[3-(aminomethyl)-N,N,5-trimethylhexanamide]</p>	Molecular Formula: C ₁₀ H ₂₂ N ₂ O Molecular Weight: 186.3Da CAS No: N/A
Perindopril EP Impurity G API: Perindopril	Catalogue Code: SP-P7-101
 <p>[(2S,3aS,7aS)-1-((S)-2-(3-cyclohexyl-2,4-dioxo-5-propylimidazolidin-1-yl)propanoyl)-octahydro-1H-indole-2-carboxylic acid]</p>	Molecular Formula: C ₂₄ H ₃₇ N ₃ O ₅ Molecular Weight: 447.57 Da CAS No: N/A
Ramipril - Isomer 1 API: Ramipril	Catalogue Code: SP-R1-101
 <p>(2S,3aR,6aR)-1-((S)-2-((S)-1-ethoxy-1-oxo-4-phenylbutan-2-ylamino)propanoyl)octahydrocyclopenta[b]pyrrole-2-carboxylic acid</p>	Molecular Formula: C ₂₃ H ₃₂ N ₂ O ₅ Molecular Weight: 416.51 Da CAS No: N/A

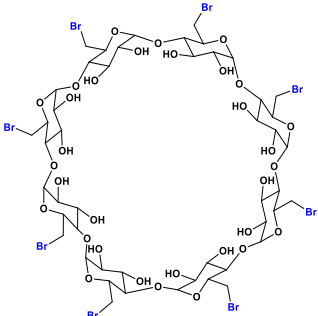
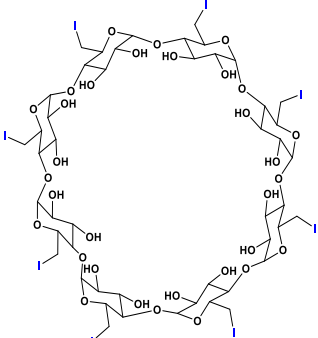
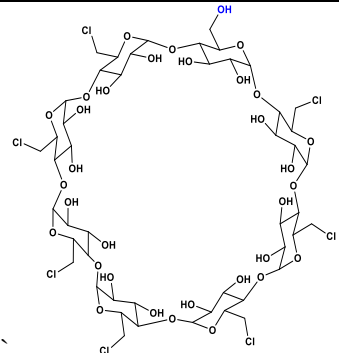
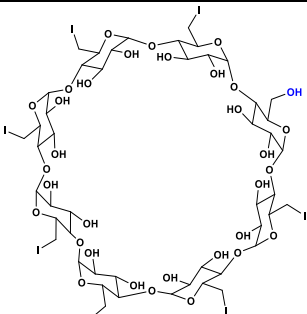
Ranitidine oxoacetic acid Impurity API: Ranitidine	Catalogue Code: SP-R2-101
 <p>(Z)-4-(2-((5-((dimethylamino)methyl)furan-2-yl)methylthio)ethylamino)-4-(methylamino)-3-nitro-2-oxobut-3-enoic acid</p>	Molecular Formula: C ₁₅ H ₂₂ N ₄ O ₆ S Molecular Weight: 386.42 Da CAS No: N/A
Sugammadex methyl ester Impurity API: Sugammadex Sodium	Catalogue Code: SP-S1-101
	Molecular Formula: C ₇₃ H ₁₁₄ O ₄₈ S ₈ Exact Mass: 2014 Da CAS No: N/A
Sugammadex Monohydroxy Impurity API: Sugammadex Sodium	Catalogue Code: SP-S1-102
	Molecular Formula: C ₆₉ H ₁₀₆ O ₄₇ S ₇ Exact Mass: 1912 Da CAS No: N/A
Sugammadex Sulfoxide Diastereomer-1 API: Sugammadex Sodium	Catalogue Code: SP-S1-103
	Molecular Formula: C ₇₂ H ₁₁₂ O ₄₉ S ₈ Exact Mass: 2016 Da CAS No: N/A
Sugammadex Sulfoxide Diastereomer-2 API: Sugammadex Sodium	Catalogue Code: SP-S1-104
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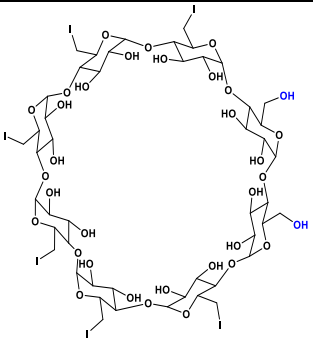
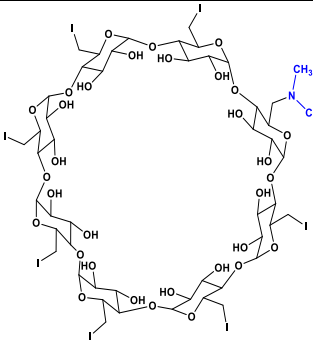
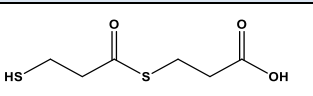
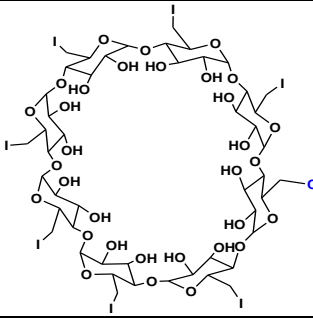
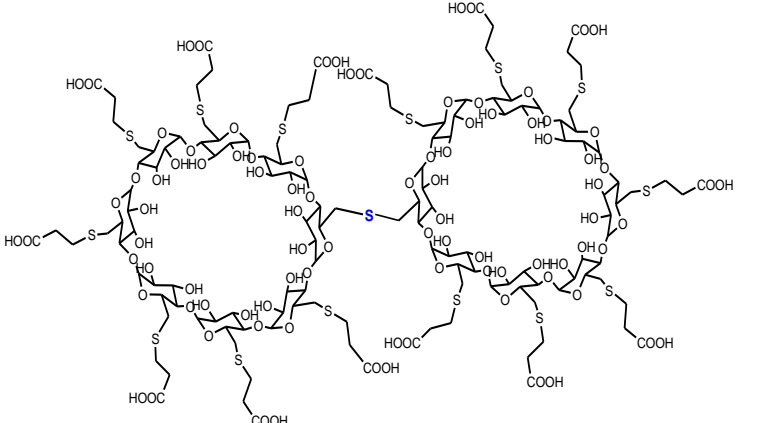
Sugammadex Monochloro Impurity API: Sugammadex Sodium	Catalogue Code: SP-S1-105
	Molecular Formula: $C_{69}H_{107}ClO_{46}S_7$ Exact Mass: 1930 Da CAS No: N/A
Sugammadex disulfide Impurity API: Sugammadex Sodium	Catalogue Code: SP-S1-106
	Molecular Formula: $C_{72}H_{112}O_{48}S_9$ Exact Mass: 2032.38 Da CAS No: N/A
Sugammadex Monothiol Impurity API: Sugammadex Sodium	Catalogue Code: SP-S1-107
	Molecular Formula: $C_{69}H_{108}O_{46}S_8$ Exact Mass: 1928.39 Da CAS No: N/A
Sugammadex Monobromo Impurity API: Sugammadex Sodium	Catalogue Code: SP-S1-108
	Molecular Formula: $C_{69}H_{107}BrO_{46}S_7$ Exact Mass: 1976.62 Da CAS No: N/A

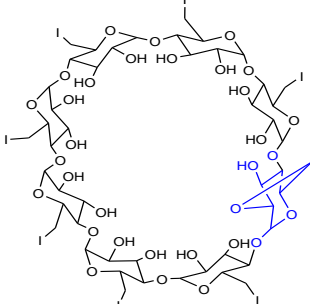
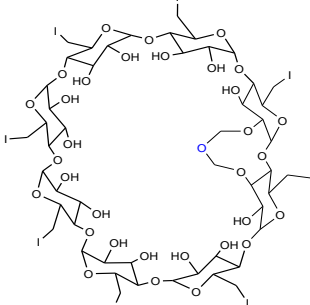
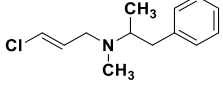
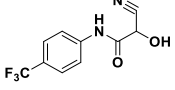
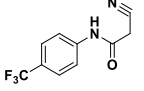
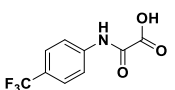
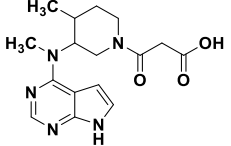
<p>Sugammadex Dimer Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-109</p>
 <p>The structure shows two Sugammadex molecules linked by a disulfide bridge (S-S) between their central sulfur atoms. Each molecule consists of a central gamma-butyrolactone ring with four propylsulfanyl chains attached to the lactone ring carbons. Each propylsulfanyl chain is terminated with a carboxylic acid group (-COOH).</p>	<p>Molecular Formula: $C_{138}H_{214}O_{92}S_{16}$ Exact Mass: 3854.76 Da CAS No: N/A</p>
<p>Sugammadex Dihydroxy Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-110</p>
 <p>The structure shows a single Sugammadex molecule with two hydroxyl groups (-OH) highlighted in blue on the lactone ring, indicating a dihydroxy impurity. The rest of the structure, including the four propylsulfanyl chains with terminal carboxylic acid groups, is identical to the parent molecule.</p>	<p>Molecular Formula: $C_{66}H_{104}O_{46}S_6$ Exact Mass: 1824.41 Da CAS No: N/A</p>
<p>Sugammadex ethyl ester Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-111</p>
 <p>The structure shows a single Sugammadex molecule with one of the propylsulfanyl chains highlighted in blue, where the terminal carboxylic acid group has been converted to an ethyl ester group (-COOEt).</p>	<p>Molecular Formula: $C_{74}H_{116}O_{48}S_8$ Exact Mass: 2028.24 Da CAS No: N/A</p>
<p>Sugammadex monomethyl thio Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-112</p>
 <p>The structure shows a single Sugammadex molecule with one of the propylsulfanyl chains highlighted in blue, where the terminal sulfur atom is bonded to a methyl group (-S-CH₃) instead of a propyl chain.</p>	<p>Molecular Formula: $C_{70}H_{110}O_{46}S_8$ Exact Mass: 1942.4 Da CAS No: N/A</p>

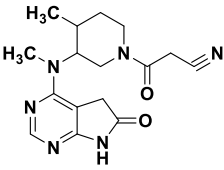
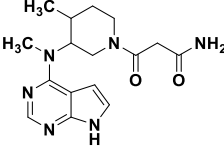
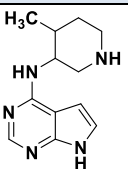
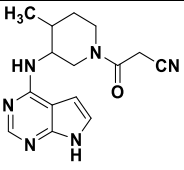
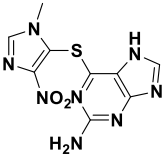
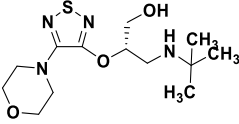
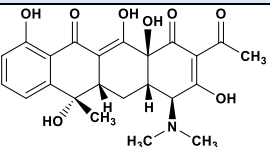
<p>Sugammadex Disulfoxide Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-113</p>
 <p>The structure shows a central gamma-cyclodextrin ring with eight propylsulfonate groups attached to the secondary hydroxyl positions. Two of these groups are oxidized to disulfoxide (-S(=O)₂-) groups, highlighted in blue.</p>	<p>Molecular Formula: $C_{72}H_{112}O_{50}S_8$ Exact Mass: 2032.40 Da CAS No: N/A</p>
<p>Sugammadex Octa sulfoxide Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-114</p>
 <p>The structure shows a central gamma-cyclodextrin ring with eight propylsulfonate groups attached to the secondary hydroxyl positions. All eight groups are oxidized to sulfoxide (-S(=O)-) groups, highlighted in blue.</p>	<p>Molecular Formula: $C_{72}H_{112}O_{56}S_8$ Exact Mass: 2128.37 Da CAS No: N/A</p>
<p>Sugammadex Octa sulfone Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-115</p>
 <p>The structure shows a central gamma-cyclodextrin ring with eight propylsulfonate groups attached to the secondary hydroxyl positions. All eight groups are oxidized to sulfone (-SO₂-) groups, highlighted in blue.</p>	<p>Molecular Formula: $C_{72}H_{112}O_{64}S_8$ Exact Mass: 2256.33 Da CAS No: N/A</p>
<p>Sugammadex Mono iodo Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-116</p>
 <p>The structure shows a central gamma-cyclodextrin ring with eight propylsulfonate groups attached to the secondary hydroxyl positions. One of the propyl chains is substituted with an iodine atom (I) at the terminal position, highlighted in blue.</p>	<p>Molecular Formula: $C_{69}H_{107}IO_{46}S_7$ Exact Mass: 2022.31 Da CAS No: N/A</p>

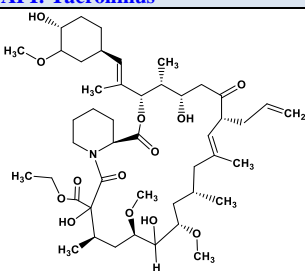
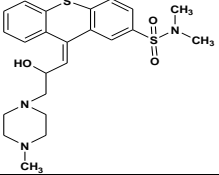
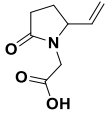
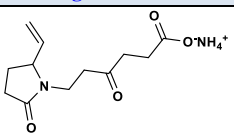
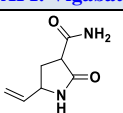
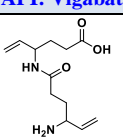
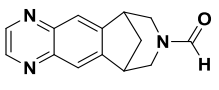
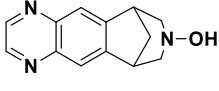
<p>Sugammadex Nitrile Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-117</p>
	<p>Molecular Formula: $C_{72}H_{111}NO_{46}S_8$ Exact Mass: 1981.41 Da CAS No: N/A</p>
<p>Sugammadex Dimethyl amino Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-118</p>
	<p>Molecular Formula: $C_{73}H_{112}NO_{48}S_8$ Exact Mass: 2012.41 Da CAS No: N/A</p>
<p>Sugammadex Dioxolane Impurity API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-119</p>
	<p>Molecular Formula: $C_{73}H_{112}O_{48}S_8$ Exact Mass: 2012.41 Da CAS No: N/A</p>
<p>Octa chloro Gamma Cyclodextrin API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-120</p>
	<p>Molecular Formula: $C_{48}H_{72}Cl_8O_{32}$ Exact Mass: 1440.15 Da CAS No: N/A</p>

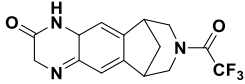
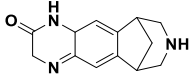
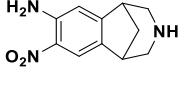
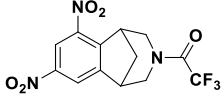
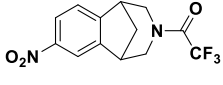
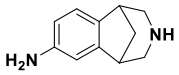
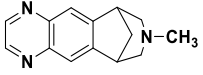
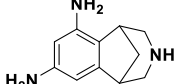
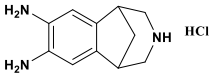
<p>Octa bromo Gamma Cyclodextrin API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-121</p>
	<p>Molecular Formula: $C_{48}H_{72}Br_8O_{32}$ Exact Mass: 1791.75 Da CAS No: N/A</p>
<p>Octa Iodo Gamma Cyclodextrin API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-122</p>
	<p>Molecular Formula: $C_{48}H_{72}I_8O_{32}$ Exact Mass: 2175.64 Da CAS No: N/A</p>
<p>Monohydroxy Chloro Gamma Cyclodextrin API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-123</p>
	<p>Molecular Formula: $C_{48}H_{73}Cl_7O_{33}$ Exact Mass: 1422.2 Da CAS No: N/A</p>
<p>Monohydroxy Iodo Gamma Cyclodextrin API: Sugammadex Sodium</p>	<p>Catalogue Code: SP-S1-124</p>
	<p>Molecular Formula: $C_{48}H_{73}I_7O_{33}$ Exact Mass: 2065.73 Da CAS No: N/A</p>

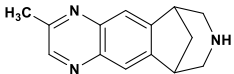
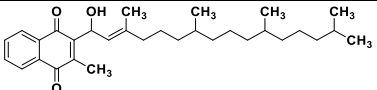
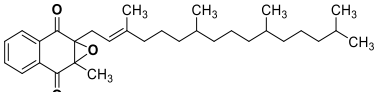
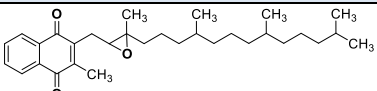
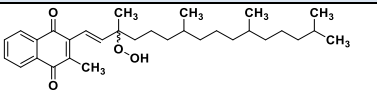
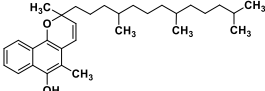
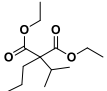
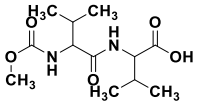
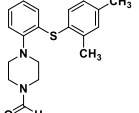
Dihydroxy Iodo Gamma Cyclodextrin API: Sugammadex Sodium	Catalogue Code: SP-S1-125
	Molecular Formula: $C_{48}H_{74}I_6O_{34}$ Exact Mass: 1955.83 Da CAS No: N/A
Dimethyl amino Iodo Gamma Cyclodextrin API: Sugammadex Sodium	Catalogue Code: SP-S1-126
	Molecular Formula: $C_{50}H_{78}I_7NO_{32}$ Exact Mass: 2092.78 Da CAS No: N/A
3-((3-mercaptopropanoyl)thio)propanoic acid API: Sugammadex Sodium	Catalogue Code: SP-S1-127
	Molecular Formula: $C_6H_{10}O_3S$ Exact Mass: 194.01 Da CAS No: 1378831-29-8
Mono chloro Iodo Gamma Cyclodextrin API: Sugammadex Sodium	Catalogue Code: SP-S1-128
	Molecular Formula: $C_{48}H_{72}ClI_7O_{32}$ Exact Mass: 2084 Da CAS No: N/A
Sugammadex Mono thio Dimer Impurity API: Sugammadex Sodium	Catalogue Code: SP-S1-129
	Molecular Formula: $C_{138}H_{214}O_{92}S_{15}$ Exact Mass: 3822 Da CAS No: N/A

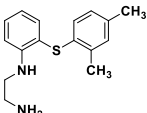
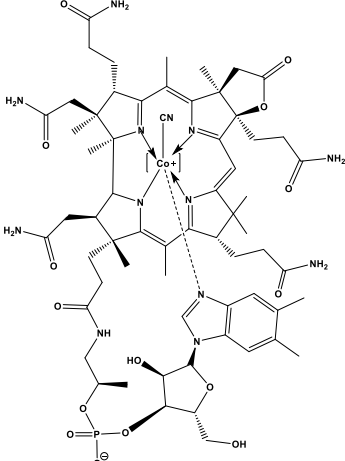
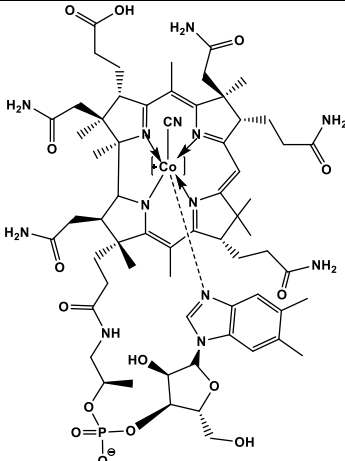
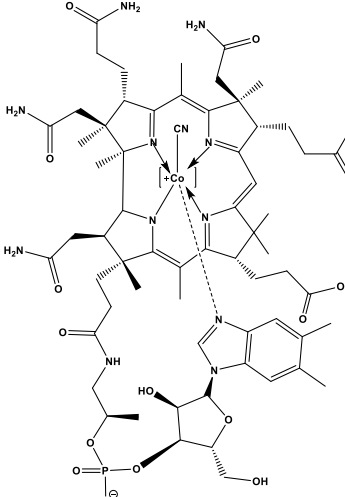
Anhydro Iodo Gamma Cyclodextrin API: Sugammadex Sodium	Catalogue Code: SP-S1-130
	Molecular Formula: C ₄₈ H ₇₁ I ₇ O ₃₂ Exact Mass: 2048 Da CAS No: N/A
Ether Iodo Gamma Cyclodextrin API: Sugammadex Sodium	Catalogue Code: SP-S1-131
	Molecular Formula: C ₅₀ H ₇₈ I ₇ NO ₃₂ Exact Mass: 2092.78 Da CAS No: N/A
Selegiline Impurity(224Da) API: Selegiline	Catalogue Code: SP-S2- 101
 (E)-3-chloro-N-methyl-N-(1-phenylpropan-2-yl)prop-2-en-1-amine	Molecular Formula: C ₁₃ H ₁₈ ClN Molecular Weight: 224 Da CAS No: N/A
Teriflunomide Impurity (MW: 244Da) API: Teriflunomide	Catalogue Code: SP-T1-101
 2-cyano-2-hydroxy-N-(4-(trifluoromethyl)phenyl)acetamide	Molecular Formula: C ₁₀ H ₇ F ₃ N ₂ O ₂ Molecular Weight: 244.17 Da CAS No: N/A
Teriflunomide Impurity (MW: 228Da) API: Teriflunomide	Catalogue Code: SP-T1-102
 2-cyano-N-(4-(trifluoromethyl)phenyl)acetamide	Molecular Formula: C ₁₀ H ₇ F ₃ N ₂ O Molecular Weight: 228.17 Da CAS No: N/A
Teriflunomide Impurity (MW: 233Da) API: Teriflunomide	Catalogue Code: SP-T1-103
 2-oxo-2-(4-(trifluoromethyl)phenylamino)acetic acid	Molecular Formula: C ₉ H ₆ F ₃ NO ₃ Molecular Weight: 233.14 Da CAS No: 69066-42-8
Tofacitinib N-acid Impurity API: Tofacitinib	Catalogue code: SP-T2-101
 3-(4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanoic acid	Molecular Formula: C ₁₆ H ₂₁ N ₅ O ₃ Molecular Weight: 331.37 Da CAS No: N/A

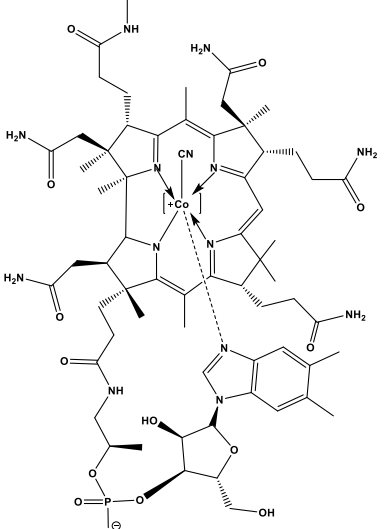
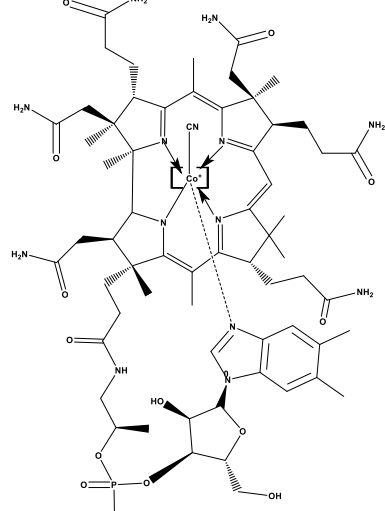
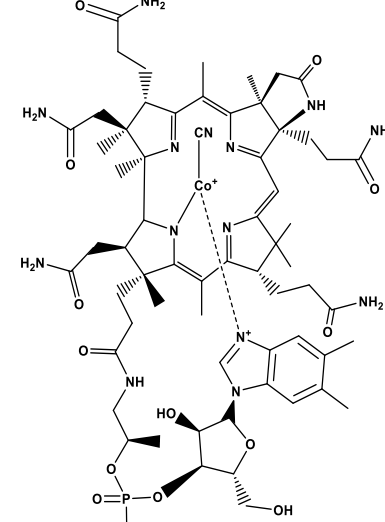
Tofacitinib Keto Impurity API: Tofacitinib	Catalogue code: SP-T2-102
	Molecular Formula: C ₁₆ H ₂₀ N ₆ O ₂ Molecular Weight: 328.37 Da CAS No: N/A
3-(4-methyl-3-(methyl(6-oxo-6,7-dihydro-5H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile	
Tofacitinib N-amide Impurity API: Tofacitinib	Catalogue code: SP-T2-103
	Molecular Formula: C ₁₆ H ₂₂ N ₆ O ₂ Molecular Weight: 330.38 Da CAS No: N/A
3-(4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanamide	
N-Desmethyl, N-Des Formyl acetonitrile Tofacitinib API: Tofacitinib	Catalogue Code: SP-T2-104
	Molecular Formula: C ₁₂ H ₁₇ N ₅ Molecular Weight: 231 Da CAS No: N/A
N-(4-methylpiperidin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine	
N-Desmethyl Tofacitinib API: Tofacitinib	Catalogue code: SP-T2-105
	Molecular Formula: C ₁₅ H ₁₈ N ₆ O Molecular Weight: 298 Da CAS No: N/A
3-(3-(7H-pyrrolo[2,3-d]pyrimidin-4-ylamino)-4-methylpiperidin-1-yl)-3-oxopropanenitrile	
Thiamiprine (Azathioprine Impurity G) API: Thiamiprine	Catalogue Code: SP-T3-101
	Molecular Formula: C ₉ H ₈ N ₈ O ₂ S Molecular Weight: 292.28 Da CAS No: 5581-52-2
6-(1-methyl-4-nitro-1H-imidazol-5-ylthio)-7H-purin-2-amine	
Timolol Impurity B API: Timolol	Catalogue Code: SP-T4-101
	Molecular Formula: C ₁₃ H ₂₄ N ₄ O ₃ S Molecular Weight: 316 Da CAS No: 158636-96-5
[(S)-2-(4-morpholino-1,2,5-thiadiazol-3-yloxy)-3-(tert-butylamino)propan-1-ol]	
2-Acetyl 2-Decarbomyl Tetracycline API: Tetracycline	Catalogue Code: SP-T5-101
	Molecular Formula: C ₂₃ H ₂₅ NO ₈ Molecular Weight: 443 Da CAS No: N/A
[(4S,4aS,5aS,6S,12aS)-2-acetyl-4-(dimethylamino)-4a,5,5a,6-tetrahydro-3,6,10,12,12a-pentahydroxy-6-methyltetracene-1,11(4H,12aH)-dione]	

Tacrolimus Alcohol adduct API: Tacrolimus	Catalogue Code: SP-T6-101
	Molecular Formula: C ₄₆ H ₇₅ NO ₁₃ Molecular Weight: 849 Da CAS No: N/A
Thiothixene Impurity at RRT 0.84 API: Thiothixene	Catalogue Code: SP-T7-101
	Molecular Formula: C ₂₃ H ₂₉ N ₃ O ₃ Molecular Weight: 459.62 Da CAS No: N/A
Vigabatrin Impurity 1 API: Vigabatrin	Catalogue Code: SP-V1-101
 2-(2-oxo-5-vinylpyrrolidin-1-yl)acetic acid	Molecular Formula: C ₈ H ₁₁ NO ₃ Molecular Weight: 169.18 Da CAS No: N/A
Vigabatrin Impurity 2 API: Vigabatrin	Catalogue Code: SP-V1-102
 [ammonium 4-oxo-6-(2-oxo-5-vinylpyrrolidin-1-yl)hexanoate]	Molecular Formula: C ₁₂ H ₂₀ N ₂ O ₄ Molecular Weight: 256 Da CAS No: N/A
Vigabatrin Impurity C API: Vigabatrin	Catalogue Code: SP-V1-103
 2-oxo-5-vinylpyrrolidine-3-carboxamide	Molecular Formula: C ₇ H ₁₀ N ₂ O ₂ Molecular Weight: 154.17 Da CAS No: 71107-19-2
Vigabatrin EP Impurity F (Dimer) API: Vigabatrin	Catalogue Code: SP-V1-104
 4-(4-aminohex-5-enamido)hex-5-enoic acid	Molecular Formula: C ₁₂ H ₂₀ N ₂ O ₃ Molecular Weight: 240.30 Da CAS No: 794466-81-2
N-Formyl Varenicline API: Varenicline	Catalogue Code: SP-V2-101
 N-formyl7,8,9,10-Tetrahydro-6,10-methano-6H-pyrazino[2,3-h] [3]benzazepine	Molecular Formula: C ₁₄ H ₁₃ N ₃ O Molecular Weight: 239.28 Da CAS No: 796865-82-2
Varenicline N-Hydroxy Impurity API: Varenicline	Catalogue Code: SP-V2-102
 N-hydroxy7,8,9,10-Tetrahydro-6,10-methano-6H-pyrazino[2,3-h] [3]benzazepine	Molecular Formula: C ₁₃ H ₁₃ N ₃ O Molecular Weight: 227.26 Da CAS No: N/A

Varenicline Impurity 2 API: Varenicline	Catalogue Code: SP-V2-103
 (6S,10R)-8-(2,2,2-trifluoroacetyl)-7,8,9,10-tetrahydro-1H-6,10-methanoazepino[4,5-g]quinoxalin-2(6H)-one	Molecular Formula: C ₁₅ H ₁₂ F ₃ N ₃ O ₂ Molecular Weight: 323 Da CAS No: 357426-10-9
Varenicline Impurity 4 API: Varenicline	Catalogue Code: SP-V2-104
 (6S,10R)-7,8,9,10-tetrahydro-1H-6,10-methanoazepino[4,5-g]quinoxalin-2(6H)-one	Molecular Formula: C ₁₃ H ₁₃ N ₃ O Molecular Weight: 227.27 Da CAS No: N/A
Varenicline Impurity 5 API: Varenicline	Catalogue Code: SP-V2-105
 (1S,5R)-8-nitro-2,3,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepin-7-amine	Molecular Formula: C ₁₁ H ₁₃ N ₃ O ₂ Molecular Weight: 219 Da CAS No: 950781-87-0
Varenicline Metadinitro Impurity API: Varenicline	Catalogue Code: SP-V2-106
 1-(6,8-dinitro-4,5-dihydro-1H-1,5-methanobenzo[d]azepin-3(2H)-yl)-2,2,2-trifluoroethanone	Molecular Formula: C ₁₃ H ₁₀ F ₃ N ₃ O ₅ Molecular Weight: 345 Da CAS No: N/A
Varenicline Mononitro Impurity API: Varenicline	Catalogue Code: SP-V2-107
 2,2,2-trifluoro-1-((1S,5R)-7-nitro-4,5-dihydro-1H-1,5-methanobenzo[d]azepin-3(2H)-yl)ethanone	Molecular Formula: C ₁₃ H ₁₁ F ₃ N ₂ O ₃ Molecular Weight: 300 Da CAS No: 230615-53-9
Varenicline Monoamino Impurity API: Varenicline	Catalogue Code: SP-V2-108
 (1S,5R)-7-amino-4,5-dihydro-1H-1,5-methanobenzo[d]azepine	Molecular Formula: C ₁₁ H ₁₄ N ₂ Molecular Weight: 174 Da CAS No: N/A
Varenicline N-methyl Impurity API: Varenicline	Catalogue Code: SP-V2-109
 N-Methyl-7,8,9,10-tetrahydro-6,10-methano-6H-pyrazino[2,3-h][3]benzazepine	Molecular Formula: C ₁₄ H ₁₅ N ₃ Molecular Weight: 225.29 Da CAS No: 328055-92-1
Varenicline Metdiamino HCl Impurity API: Varenicline	Catalogue code: SP-V2-110
 6,8-diamino-1,2,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepine	Molecular Formula: C ₁₁ H ₁₅ N ₃ Molecular Weight: 189.26 Da CAS No: N/A
Varenicline Impurity F API: Varenicline	Catalogue code: SP-V2-111
 [2,3,4,5-tetrahydro-1H-1,5-methano-3-benzapin-7,8-diamine]	Molecular Formula: C ₁₁ H ₁₅ N ₃ Molecular Weight: 189 Da CAS No: N/A

Methyl Varenicline Impurity API: Varenicline	Catalogue code: SP-V2-112
 <p>[2-methyl-7,8,9,10-tetrahydro-6H-6,10-methanoazepino[4,5-g]quinoxaline]</p>	Molecular Formula: C ₁₄ H ₁₅ N ₃ Molecular Weight: 225 Da CAS No: 1333145-89-3
Vitamin K1 hydroxylated Impurity API: Vitamin-K1	Catalogue Code: SP-V3-101
 <p>(E)-2-(1-hydroxy-3,7,11,15-tetramethylhexadec-2-enyl)-3-methyl-2,3-dihydronaphthalene-1,4-dione</p>	Molecular Formula: C ₃₁ H ₄₆ O ₃ Molecular Weight: 466 Da CAS No: N/A
Trans Epoxy Phytomenadione / Oxidative Degradation Impurity API: Vitamin-K1	Catalogue Code: SP-V3-102
 <p>[1a-methyl-7a-((E)-3,7,11,15-tetramethylhexadec-2-enyl)naphtho[2,3-b]oxirene-2,7(1aH,7aH)-dione]</p>	Molecular Formula: C ₃₁ H ₄₆ O ₃ Molecular Weight: 466 Da CAS No: 25486-55-9
Phytonadione Aliphatic Epoxide Impurity API: Vitamin-K1	Catalogue code: SP-V3-103
 <p>[2-methyl-3-((3-methyl-3-((4R,8R)-4,8,12-trimethyltridecyl)oxiran-2-yl)methyl)naphthalene-1,4-dione]</p>	Molecular Formula: C ₃₁ H ₄₆ O ₃ Molecular Weight: 466 Da CAS No: N/A
Phytonadione Hydroperoxide Impurity API: Vitamin-K1	Catalogue code: SP-V3-104
 <p>[2-((E)-3-hydroperoxy-3,7,11,15-tetramethylhexadec-1-enyl)-3-methylnaphthalene-1,4-dione]</p>	Molecular Formula: C ₃₁ H ₄₆ O ₄ Molecular Weight: 482 Da CAS No: 15576-39-3
Naphthochromenol API: Vitamin-K1	Catalogue Code: SP-V3-105
 <p>[2,5-dimethyl-2-(4,8,12-trimethyltridecyl)-2H-benzo[h]chromen-6-ol]</p>	Molecular Formula: C ₃₁ H ₄₆ O ₂ Molecular Weight: 450 Da CAS No: N/A
Valproic acid Impurity MW 244Da API: Valproic acid	Catalogue Code: SP-V4-101
 <p>diethyl 2-isopropyl-2-propylmalonate / 2-(1-methylethyl)-2-propyl-1,3-diethyl ester</p>	Molecular Formula: C ₁₃ H ₂₄ O ₄ Molecular Weight: 244.33 Da CAS No: 62391-98-4
N-Methoxycarbonyl-L-valine-valine-OH API: Valine	Catalogue Code: SP-V5-101
 <p>[2-((2-[(methoxycarbonyl)amino]-3-methylbutanoyl)amino)-3-methylbutanoic acid]</p>	Molecular Formula: C ₁₂ H ₂₂ N ₂ O ₅ Molecular Weight: 274 Da CAS No: N/A
N-Formyl Vortioxetine API: Vortioxetine	Catalogue Code: SP-V6-101
 <p>[4-(2-(2,4-dimethylphenylthio)phenyl)piperazine-1-carbaldehyde]</p>	Molecular Formula: C ₁₉ H ₂₂ N ₂ OS Molecular Weight: 326 Da CAS No: N/A

<p>Desethylene Vortioxetine API: Vortioxetine</p>	<p>Catalogue Code: SP-V6-102</p>
 <p>[2-(2,4-dimethylphenylthio)-N-(2-aminoethyl)benzenamine]</p>	<p>Molecular Formula: C₁₆H₂₀N₂S Molecular Weight: 272 Da CAS No: N/A</p>
<p>Lacto cyanocobalamin (Impurity-F) API: Cyanocobalamin /Vitamin –B12</p>	<p>Catalogue Code: SP-V7-101</p>
	<p>Molecular Formula: C₆₃H₈₅CoN₁₃O₁₅P Exact mass: 1353 Da CAS No: 23208-66-4</p>
<p>32-Carboxycyanocobalamin (Impurity-32) API: Cyanocobalamin /Vitamin –B12</p>	<p>Catalogue Code: SP-V7-102</p>
	<p>Molecular Formula: C₆₃H₈₇CoN₁₃O₁₅P Exact mass: 1355 Da CAS No: 121483-62-3</p>
<p>50-Carboxycyanocobalamin (Impurity-50) API: Cyanocobalamin /Vitamin –B12</p>	<p>Catalogue Code: SP-V7-103</p>
	<p>Molecular Formula: C₆₃H₈₇CoN₁₃O₁₅P Exact mass: 1355 Da CAS No: 26264-28-8</p>

34-Methyl Cyanocobalamin (Impurity-G) API: Cyanocobalamin /Vitamin –B12	Catalogue Code: SP-V7-104
	Molecular Formula: $C_{64}H_{90}CoN_{14}O_{14}P$ Exact mass: 1368.6 Da CAS No: 38218-51-8
8-EpiCyanocobalamin (Impurity-H) API: Cyanocobalamin /Vitamin –B12	Catalogue Code: SP-V7-105
	Molecular Formula: $C_{63}H_{87}CoN_{13}O_{15}P$ Exact mass: 1355.55 Da CAS No: 41325-63-7
Cyanocobalamin Impurity D (Lactam) API: Cyanocobalamin /Vitamin –B12	Catalogue Code: SP-V7-106
	Molecular Formula: $C_{63}H_{86}CoN_{14}O_{14}P$ Exact mass: 1352.55 Da CAS No: N/A

Zileuton Impurity (MW: 279.31Da) API: Zileuton	Catalogue Code: SP-Z1-101
 1-(1-(benzo[b]thiophen-2-yl)ethyl)-1-(carbamoyloxy)urea	Molecular Formula: C ₁₂ H ₁₃ N ₃ O ₃ S Molecular Weight: 279.31 Da CAS No: N/A



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Cost effective process development for API and Key Starting Material (KSM)
Custom Synthesis

Spincotech Pvt Ltd has been the preferred partner for the scientific community over the past thirty years in the field of analytical and life science instrumentation. "Customerization" is the cornerstone of our company's culture. At Spinco, we are committed to excellence in every function of our business using skilled personnel, knowledge, technology and innovation to provide products of highest quality and world class services. The sustained support that Spinco inherited from the scientific community has now enabled us to set up a state-of-art R&D centre to provide chemistry solutions. The Spincotech R&D centre offers - supply of challenging API related substances/impurities, custom synthesis materials, novel cost effective process know-how and manufacturing of intermediates.

Being an analytical instrumentation organisation, Spincotech offers 'total analytical solution' in terms of quantification as well as characterisation of unknown molecules through state of art technologies such as LCMS, MSMS and multi facets of NMR.

About us



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