

LIST OF IMPURITIES

Product

CAS No.

Ketoconazole

Ketoconazole (Std)	65277-42-1
Ketoconazole EP Impurity C	83374-59-8
Ketoconazole EP Impurity E	134071-44-6
1-Acetyl-4-(4-Hydroxyphenyl)Piperazine	67914-60-7
Ketoconazole Trans Tosylate	

Orlistat

Orlistat (Standard)	96829-58-2
Orlistat Open Ring Amide Impurity	
Orlistat Open Ring Epimer Impurity	130793-28-1
Orlistat Open Ring Acid Impurity (84% Purity)	130676-66-3
(S)-3-Hexyl-5,6-Dihydro-6-Undecyl-2H-Pyran-2-One	130676-64-1
Orlistat USP Related Compound D	130793-27-0

Etoricoxib

Desmethyl Etoricoxib	202409-31-2
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Fulvestrant

Fulvestrant Int-TBDMS Chain	
Fulvestrant Side Chain Impurity	148757-89-5

Sildenafil

Sildenafil EP Impurity B	1094598-75-0
N-Desmethyl Sildenafil	139755-82-1

Tofacitinib

Tofacitinib Impurity R	479633-63-1
Tofacitinib Impurity Q	3680-69-1

LIST OF IMPURITIES

Product

CAS No.

Sitagliptin

S

3-(Trifluoromethyl)-5,6,7,8-Tetrahydro-[1,2,4]Triazolo[4,3-A]
Pyrazine Hydrochloride

762240-92-6

N-Boc Sitagliptin Acid Impurity

486460-00-8

Bendamustine

S

Deschloroethyl Bendamustine Hydrochloride

1797881-48-1

Pramipexole

Pramipexole EP Impurity A

106092-09-5

Pramipexole EP Impurity B

1246815-83-7

(S)-4,5,6,7-Tetrahydro-N2,N6-Propionyl-2,6-Benzothiazolodiamine

1346617-47-7

Pramipexole EP Impurity E

106006-84-2

Azithromycin

Azithromycin

83905-01-5

Azithromycin Imp-A

76801-85-9

Azithromycin Impurity E

612069-27-9

Azithromycin Impurity F

612069-28-0

Azithromycin Impurity I

172617-84-4

Azithromycin Impurity L

90503-06-3

Hydroxy Azithromycin

756825-20-4

Azithromycin Impurity M

765927-71-7

Azithromycin Impurity N

612069-25-7

Simvastatin

Simvastatin

79902-63-9

Simvastatin EP Impurity A

101314-97-0

Simvastatin EP Impurity B

145576-25-6

Simvastatin Acid Ammonium Salt

139893-43-9

Simvastatin Hydroxy Acid Methyl Ester

145576-26-7

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Sitagliptin

S

3-(Trifluoromethyl)-5,6,7,8-Tetrahydro-[1,2,4]Triazolo[4,3-A]
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486460-00-8

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1797881-48-1

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Pramipexole EP Impurity B

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106006-84-2

Azithromycin

Azithromycin

83905-01-5

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Simvastatin

Simvastatin

79902-63-9

Simvastatin EP Impurity A

101314-97-0

Simvastatin EP Impurity B

145576-25-6

Simvastatin Acid Ammonium Salt

139893-43-9

Simvastatin Hydroxy Acid Methyl Ester

145576-26-7

LIST OF IMPURITIES

Product

CAS No.

Metformin

Metformin EP Impurity A	461-58-5
Metformin EP Impurity D	108-78-1
Metformin EP Impurity C	1985-46-2
Metformin Impurity F	506-59-2
Metformin Impurity E	36801-25-9

Valproic Acid

Valproic Acid	99-66-1
Valproic Acid EP Impurity K	5343-52-2
Valproic Acid EP Impurity D	52061-75-3
Valproic Acid EP Impurity A	109-52-4

Clopidogrel

Clopidogrel	113665-84-2
Clopidogrel EP Impurity A	144750-42-5
Clopidogrel Related Compound C	120202-71-3
Clopidogrel Related Compound B	144750-52-7
Ethyl 4-Acetyl-2-Propyl-1h-Imidazole-5-Carboxylate	
Diethyl-2-Propylimidazole-4,5-Dicarboxylate	144689-94-1
4,5-Bis(Chloromethyl)-1,3-Dioxol-2-One	
Olmesartan Ep Impurity A	144689-24-7
Olmesartan Ep Impurity B	849206-43-5
Olmesartan Ep Impurity C	879562-26-2
Olmesartan Ep Impurity D Instock	1020157-01-0
Olmesartan Ethyl Ester	144689-23-6
Olmesartan Imidazole Diacid Impurity	58954-23-7
Olmesartan Methyl Ether With Tr	
Olmesartan Medoxomil Methyl Ether	896419-17-3

LIST OF IMPURITIES

Product

CAS No.

N1-Trityl Olmesartan Medoxomil	144690-92-6
Olmesartan Ethyl Ester Trityl Impurity	144690-33-5
Olmesartan Impurity (N-(Triphenylmethyl)-5-(4'-Bromomethylbiphenyl-2-yl)Tetrazole)	124750-51-2
Olmesartan Medoxomil Impurity 5 (4-(Chloromethyl)-5-Methyl-1,3-Dioxol-2-One)	80841-78-7
Olmesartan Methyl Ester	1347262-29-6
Olmesartan Methyl Ketone	1227626-45-0
Olmesartan Imidazole Ethyl Ester Impurity	144689-93-0
Olmesartan Impurity 4	1443544-27-1
4-Acetyl-2-Propyl-1h-Imidazole-5-Carboxylic Acid Ethyl Ester	144690-07-3
Olmesartan Ep Impurity C	879562-26-2

Folic Acid

Folic Acid Impurity_B	1004-75-7
Folic Acid Impurity A	4271-30-1

Bupivacaine

Bupivacaine Ep Impurity A	39627-98-0
Bupivacaine Ep Impurity B	15883-20-2
Bupivacaine Ep Impurity C	1797894-80-4
Bupivacaine Ep Impurity D	1037184-07-8
Bupivacaine Ep Impurity E	1330172-81-0
Bupivacaine Ep Impurity F Hcl	21436-98-6
1-(2,6-Dimethylphenyl)Azepan-2-One (Cyclised Impurity)	
4-Hexylbenzene-1,3-Diol	136-77-6
1-(2,4-Dihydroxyphenyl)Hexan-1-One	3144-54-5
4-Pentylbenzene-1,3-Diol	533-24-4
1-(2,4-Dihydroxyphenyl)Pentan-1-One	15116-13-9

LIST OF IMPURITIES

Product

CAS No.

Ivabradine

Ivabradine N-Oxide

Diltazem

Diltiazem Ep Impurity F (Desacetyl Diltiazem)

42399-40-6

Vertioxetine

Vortioxetine N-Acetyl

Tenofovir

Tenofovir Monohydrate

206184-49-8

Ambrisentan

Ambrisentan N-Oxide

Cilnidipine

Cilnidipine Impurity A (Nimodipine Ep Impurity C)

70172-96-2

Cinacalcet

Cinacalcet Impurity 39 (Imine N-Oxide)

Tolteridone

(R)-Desisopropyl Tolterodine

194482-41-2

Tolteridone Lactol Impurity

209747-04-6

Tolteridone Lactone Impurity Racemate

40546-94-9

Tolteridone Monoisopropyl Analog Racemate(Imp E)

480432-14-2

Betahistine

Betahistine Ep Impurity A

100-69-6

Betahistine Ep Impurity B

103-74-2

Betahistine Ep Impurity C

2095467-43-7

Product

CAS No.

Metolazone

Desmethyl Metolazone	28524-40-5
Metolazone Benzamide Analog	23380-54-3
Meta – Metalazone	50869-25-5
Para – Metalazone	28508-63-6
Didehydrometolazone	4015-23-0

Paroxetine

4-Ethoxy Paroxetine Hydrochloride	1346597-97-4
Paroxetine Hydrochloride Ep Impurity E	
Paroxetine Ep Impurity G	69675-10-1
Paroxetine Ep Impurity B	533-31-3

Aripiprazole

N1-(2-Chloroethyl)-N2-(2,3-Dichlorophenyl)Ethane-1,2-Diamine	
Di-[2-(2,3-Dichlorophenyl)Aminoethyl]Amine	1424857-89-5
Bis (2,3-Dichlorophenyl) Piperazine	
Aripiprazole Related Compound F	573691-09-5
Aripiprazole-N,N'-Dioxide	573691-13-1
Aripiprazole Impurity A	22246-18-0

Macitentan

2-[[6-Amino-5-(4-Bromophenyl)-4-Pyrimidinyl]Oxy]-Ethanol	2211059-05-9
6-Amino-5-(4-Bromophenyl)-4(3h)-Pyrimidinone	2211054-46-3
5-(4-Bromophenyl)-4,6-Dichloropyrimidine	146533-41-7
5-Des-Bromo-Macitentan	2211059-00-4
Dimethyl (4-Bromophenyl)Malonate	149506-35-4
N-Propylsulfamide Potassium Salt	1393813-41-6

LIST OF IMPURITIES

Product

CAS No.

Ibuprofen

Ibuprofen Impurity A	66622-47-7
Ibuprofen Impurity B	3585-49-7
Ibuprofen Impurity C	59512-17-3
Ibuprofen Impurity D	938-94-3
Ibuprofen Impurity E	38861-78-8
Ibuprofen Impurity L	53949-53-4
Ibuprofen Impurity N	3585-52-2
Ibuprofen Impurity J	65813-55-0
Ibuprofen Impurity P	36039-36-8
Ibuprofen Impurity F	65322-85-2
Ibuprofen Impurity M	60057-62-7

Celecoxib

Celecoxib Impurity A	170570-01-1
Celecoxib Impurity B	331943-04-5
Celecoxib Methyl P-Toluate	99-75-2
Celecoxib Impurity 2	948293-46-7
Celecoxib Impurity C (2-Methyl Celecoxib)	170569-99-0
Celecoxib Impurity 7 (2,4 Dimethyl Celecoxib)	170570-09-9
Celecoxib Hydrazine Impurity	17852-52-7
Celecoxib Related Compound 4	720-94-5
Celecoxib Compound; Methyl 3-Methylphenyl Ketone; Methyl M-Tolyl Ketone; Nsc 46632; M-Methylacetophenone	585-74-0
Celecoxib Compound; 1-(4-Methylphenyl)-1-Ethanone; 1-(4- Methylphenyl)Ethanone; 1-(4-Tolyl)Ethanone; 1-Acetyl-4- Methylbenzene;	122-00-9

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Product

CAS No.

Dronederone

N-Desbutyl Dronederone	197431-02-0
Dronedarone Hydrochloride Impurity A	

Trazadone

Trazadone Impurity A	55290-68-1
Trazadone Impurity B	62337-66-0
Trazadone Impurity C	
Trazadone Impurity D	1263278-80-3
Trazadone Impurity F	39577-43-0

Fenofibrate

Fenofibrate Ep Impurity D	42019-07-8
Fenofibrate Ep Impurity A	10547-60-1
Fenofibrate Ep Impurity B (Fenofibric Acid)	42017-89-0
Fenofibrate Ep Impurity E	42019-08-9
Fenofibrate Related Compound A	42019-78-3
Fenofibrate Ep Impurity C	217636-47-0
Fenofibrate Ep Impurity F	154356-96-4
Fenofibrate Ep Impurity G	217636-48-1

Ondansetron

Ondansetron Impurity D	99614-64-9
Ondansetron Impurity A	119812-29-2; 153139-56-1 Free Base
Ondansetron Impurity G	99614-03-6
Ondansetron Impurity C	27387-31-1
Ondansetron Impurity F	693-98-1

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Product

CAS No.

Olanzapine

Olanzapine Ep Impurity A	138564-59-7
Olanzapine Related Compound B	221176-49-4
Olanzapine N Oxide/Imp D	174794-02-6
Olanzapine Amino Impurity	873895-41-1
Olanzapine Impurity 1	138564-58-6
Olanzapine Impurity 2	1493-27-2

Simvastatin

Simvastatin Ep Imp A	101314-97-0
Simvastatin Ep Impurity B	145576-25-6
Simvastatin Acid Ammonium Salt	139893-43-9

Setraline

Setraline Ep Imp A	79617-99-5
Baclofen	
Baclofen Impurity 1	35271-74-0
Chlorophenylglutaric Acid Anhydride	53911-68-5
4-(4-Chlorophenyl)-2,6-Piperidinedione	84803-46-3

Palonosetron

Palonosetron Related Compound A	813425-83-1
Palonosetron Related Compound B	1021456-82-5
Dehydropalonosetron	

Irinotecan

7,11-Diethyl-10-Hydroxycamptothecin	947687-01-6
7-Ethyl-10-Hydroxycamptothecin	86639-52-3

LIST OF IMPURITIES

Product

CAS No.

Fingolimod

Fingolimod Palmitate Amide	1242271-26-6
Fingolimod Sterate Amide	1242271-27-7
Rizatriptan	
Rizatriptan Ep Impurity C	208941-96-2

Clobazam

Clobazam Ep Impurity A	22316-55-8
Clobazam Ep Impurity B	22316-24-1
Clobazam Ep Impurity C	22316-16-1
Clobazam Ep Impurity D	
1-(4-Aminobenzyl)1,2,4triazole	119192-10-8

Timolol

Timolol Ep Impurity F	30165-96-9
Timolol Ep Impurity D	30165-97-0
Timolol Impurity D	
Timolol Impurity B	158636-96-5

Fluoxetine

Fluoxetine Related Compound B	23580-89-4
Fluoxetine Related Compound C	1026723-45-4

Duloxetine

Duloxetine Ep Impurity B	116539-55-0
Duloxetine Ep Impurity D	90-15-3
Duloxetine Ep Impurity G	321-38-0
Duloxetine Impurity 4(Racemic)	
Duloxetine Salt	645411-16-1
Duloxetine Impurity 6	
Duloxetine S-Hydroxy Impurity	132335-44-5

LIST OF IMPURITIES

Product

CAS No.

Duloxetine Impurity 11	603996-87-8
Duloxetine Impurity 10	13196-35-5
Duloxetine Ep Impurity A	910138-96-4

Diazepam

6021-21-2

Diazepam Ep Impurity B	20927-53-1
Diazepam Ep Impurity E	1088-11-5
Diazepam - Impurity A	1022-13-5
Diazepam - Impurity D	784-41-8
Diazepam - In House Impurity	

Levitiracetam

Levitiracetam Related Compound A	102767-31-7
Levitiracetam Related Compound B	7682-20-4

Mycophenolate Mofetil

Mycophenolate Mofetil Related Compound B	26675-76-3
Mycohenolate Impurity F	24280-93-1

Desloratadine

Desloratadine N-Methyl Impurity	38092-89-6
Desloratadine N-Formyl Impurity	117810-61-4
Desloratidine-N-Oxide	169253-26-3
Desloratadine Impurity E	79794-75-5
Desloratadine Ep Impurity A	298220-99-2

Raltegravir

Raltegravir Ep Impurity G	
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Moxifloxacin

151213-15-9

Moxifloxacin Related Compound A	
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Product

CAS No.

Moxifloxacin

151213-15-9

Moxifloxacin Related Compound A

Donepezil

120014-07-5

Donepezil Related Compound A

Deoxydonepezil

844694-84-4

Desbenzyl Donepezil

120013-39-0

Donepezil N-Oxide

120013-84-5

Donepezil Pyridine Analog (Dpmi)

4803-57-0

Donepezil Aldehyde Impurity

22065-85-6

Donepezil Didesmethyl Impurity

220170-71-8

Donepezil Pyridine N-Oxide

896134-07-9

Donepezil Impurity (5,6-Dimethoxy-1-Indanone)

2107-69-9

Donepezil Pyridine Dehydro Impurity

4803-74-1

Meloxicam

Meloxicam Usp Related Compound A

24683-26-9

Meloxicam Ep Impurity B

7305-71-7

Meloxicam Ep Impurity E

35511-15-0

Pyridoxine

Pyridoxine Impurity B

148-51-6

Trimethoprim

Trimethoprim Ep Impurity H

1916-07-0

Trimethoprim Ep Impurity J

118-41-2

Lamivudine

Lamivudine Ep Impurity C

69-72-7

Lamivudine Ep Impurity H

160552-54-5

Lamivudine Ep Impurity J

145986-07-8

Lamivudine Ep Impurity G

160552-55-6

Lamivudine Ep Impurity E

71-30-7

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Product

CAS No.

Losartan

Losartan Ep Impurity C 114799-13-2

2-Butyl-4-Chloro-1-[[2'-(1h-Tetrazol-5-Yl)[1,1'-Biphenyl]
-4-Yl]Methyl]-1h-Imidazole-5-Methanol 114798-26-4

Losartan Impurity K

Losartan Ep Impurity D; Losartan Usp Related Compound A 83857-96-9

5-Chloro-2-Butyl-Imidazole-4-Methanol; Losartan Ep Impurity A 79047-41-9

Omeprazole

Omeprazole Ep Impurity I 158812-85-2

Omeprazole N-Oxide/Imp E 176219-04-8

Omeprazole Ep Impurity C 73590-85-9

Omeprazole Ep Impurity D/Related Compound A 88546-55-8

Omeprazole Impurity F&G 125656-82-8; 125656-83-9

4-Hydroxy Omeprazole Sulphide 103876-98-8

Omeprazole Related Compound B 37052-78-1

Ciprofloxacin

Ciprofloxacin Ep Impurity C 528851-31-2

Budesonide

21 Dehydro Budesonide 85234-63-5

Benzothiadiazine

Benzothiadiazine Related Compound A 121-30-2

Sumatriptan

Sumatriptan N-Oxide (92 %) 212069-94-8

Valsartan

Valsartan Related Compound B 952652-79-8

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Product

CAS No.

Lacosamide

Lacosamide Imp K	86921-49-5
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Cetirizine

Cetirizine Ep Impurity G	109806-71-5
Cetirizine Ep Impurity A	303-26-4
Cetirizine Ep Impurity D	346451-15-8
Cetirizine -N-Oxide	1076199-80-8
Cetirizine Impurity A	303-26-4
Cetirizine Dihydrochloride	83881-51-0
Deschloro Benzhydrel Piperazine Cet	
1-Benzhydrylpiperazine	841-77-0
3-Chloro Bhp	
4-Chlorobenzhydrol	119-56-2
3-Chlorobenzophenone	1016-78-0
Ethoxy Cet	68-88-2
Cetirizine Impurity 8	
Cetirizine Methyl Ester	
Cetirizine Related Compound D	
1-((R)-(4-Chlorophenyl) (Phenyl)Methyl)Piperazine	300543-56-0

Pantoprazole

Pantoprazole Ep Imp A	127780-16-9
Pantoprazole Ep Imp B	102625-64-9

Flurbiprofen

Flurbiprofen Impurity B	66202-86-6
Methyl Flurbiprofen	
Ethyl Flurbiprofen	
Dimethyl 2-(2-Fluorobiphenyl-4-yl)-2,3-Dimethylsuccinate	

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Product

CAS No.

Piperaquine

Piperaquine Impurity I	837-52-5
Piperaquine Impurity Iii	31502-87-1

Fluticasone

Fluticasone Ep Impurity C	80474-24-4
Fluticasone Ep Impurity B	948566-12-9
Fluticasone Ep Impurity D	73205-13-7

Abacavir

Abacavir Cyclopropyl Diamino Purine Impurity	120503-69-7
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Doxazosin

Doxazosin Ep Impurity H	104965-50-6
Doxazosin Ep Impurity C	617677-53-9

Tenofovir Disoproxil

Tenofovir	147127-20-6
Tenofovir Related Compound 14	1244022-52-3

Ketoprofen

Ketoprofen Ep Impurity A	66067-44-5
Ketoprofen Impurity C.	68432-95-1

Clotrimazole

Clotrimazole Ep Impurity A	66774-02-5
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Atazanavir

(3r,8s,9s,12s)-Atazanavir	1332981-14-2
Atazanavir Di-Tert-Butyl Analog From SS Epoxide	
Atazanavir S,S,S	
(3S,8S,9S,12R)-Atazanavir	1332981-16-4
Atazanavir R,S,S	
(2S,3S)-3-Boc-Amino-1,2-Epoxy-4-Phenylbutane	98737-29-2

LIST OF IMPURITIES

Product

CAS No.

(3R,8S,9S,12R)-Atazanavir	1292296-11-7
1-Boc-2-[4-(2-Pyridinyl)Benzylidene]Hydrazine	198904-85-7
4-(2-Pyridinyl)Benzaldehyde	127406-56-8
N-(Methoxycarbonyl)-L-Tert-Leucine	162537-11-3
4-(2-Pyridinyl)Benzoic Acid	4385-62-0
(3R,8R,9S,12R)-Atazanavir	1292296-10-6
Atazanavir R,R,S	
Atazanavir Di-Tert-Butyl Analog From RS Epoxide	
8-Epi Atazanavir	1292296-09-3
(3R,8R,9S,12S) Atazanavir	
(2S,3S)-3-Amino-4-Phenyl-1-{1-[4-(Pyridin-2-Yl)Benzyl]-2-[4-(Pyridin-2-Yl)Benzylidene]Hydrazinyl}Butan-2-OL	
Des-N-(Methoxycarbonyl)-L-Tert-Leucine Atazanavir Trihydrochloride	198904-87-9
(3S,8R,9S,12R) Atazanavir	
(2R,3S)-3-(Tert-Boc)Amino-1,2-Epoxy-4-Phenylbutane	98760-08-8

Ipratropium Bromide

Ipratropium Bromide EP Impurity F	17812-46-3
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Rifamycin

3-(Isonicotinoylhydrazonomethyl) Rifamycin	13292-53-0
25-Desacetyl Rifampicin	16783-99-6

Levofloxacin

Descarboxyl Levofloxacin	178964-53-9
Levofloxacin Diamine Impurity	1797510-34-9
Levofloxacin Unrelated Compound C	177472-30-9
Levofloxacin N-Oxide	117678-38-3
N-Desmethyl Levofloxacin	117707-40-1
Levofloxacin Carboxylic Acid	100986-89-8

LIST OF IMPURITIES

Product

CAS No.

Dolutegravir

Dolutegravir Impurity A	NA
Dolutegravir Impurity B	NA
Dolutegravir Impurity C	NA
Dolutegravir Impurity D	
Dolutegravir Impurity E	
Dolutegravir Impurity F	
Dolutegravir RR Isomer	1357289-29-2
Dolutegravir SR Isomer	1309560-49-3

Eletriptan Hydrobromide

Eletriptan Related Compound 01

Gabapentin

Desmethylated Beta Amino Acid Impurity/ Isopropyl
– 1-(Amino Methyl)Cyclohexane-1-Carboxylate

Isopropyl 2-(1-(Amino Methyl)Cyclohexyl)Acetate

Gabapentin EP Impurity A	64744-50-9
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Bisoprolol

Bisoprolol EP Impurity A	62572-93-4
Bisoprolol EP Impurity M	177034-57-0
Bisoprolol EP Impurity G	1215342-36-1
Bisoprolol EP Impurity L	29122-74-5
Bisoprolol EP Impurity E	1217245-60-7
Bisoprolol EP Impurity K	864544-37-6
N-Formyl Bisoprolol	1447715-45-8
Bisoprolol Impurity 1	1346603-05-1

LIST OF IMPURITIES

Product

CAS No.

Sildenafil

Sildenafil Impurity D

Sildenafil Impurity E

Sildenafil Impurity F

Sildenafil Impurity A

Sildenafil Impurity B

Sildenafil Impurity C

N-Desmethyl Sildenafil

139755-82-1

Aceclofenac

Aceclofenac Impurity A

15307-79-6 / 15307-86-5 (FREE ACID);

Aceclofenac Impurity B

15307-78-5

Aceclofenac Impurity I

15362-40-0

Aceclofenac Impurity E

139272-67-6

Aceclofenac Impurity D

139272-66-5

Aceclofenac Impurity F

100499-89-6

Aceclofenac Impurity G

1215709-75-3

Aceclofenac Impurity C

15307-77-4

Albendazole

Albendazole Impurity A

80983-36-4

Albendazole Impurity B

54029-12-8

Albendazole Impurity C

75184-71-3

Albendazole Impurity D

80983-34-2

Albendazole Impurity E

10605-21-7

Albendazole Impurity F

80983-45-5

Albendazole Impurity G

139751-05-6

Albendazole Impurity 10

LIST OF IMPURITIES

Product

CAS No.

Acebutalol

Acebutalol Impurity C	40188-45-2
Acebutalol Impurity J	57898-79-0

Azelastine

Azelastine Impurity A	613-94-5
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Atorvastatin

Atorvastatin Impurity H	125995-03-1
Atovastatin Related Compound D	148146-51-4
Atovastatin Related Compound C	693794-20-6 (Fb) / 693793-53-2(Ca Salt);
Atorvastatin Amide Impurity	
Atorvastatin Methyl Ester	
Atorvastatin Tert-Butyl Ester	
Atorvastatin 3-Deoxyhept-2-Enoic Acid	
Atorvastatin Pyrrolidone Analog (Usp)	148217-40-7
Atorvastatin Fx1 Impurity	1315629-79-8

Aspirin

Aspirin Impurity E	552-94-3
Aspirin Impurity F	1466-82-6

Amoxicillin

Amoxicillin Impurity A	551-16-6
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Acetazolamide

Acetazolamide Impurity A	60320-32-3
Acetazolamide Impurity B	
Acetazolamide Impurity E	827026-60-8 (Free Acid)

LIST OF IMPURITIES

Product

CAS No.

Amlodipine

Amlodipine Impurity A	88150-62-3
Amlodipine Impurity B	721958-72-1
Amlodipine Impurity D	113994-41-5
Amlodipine Impurity G	43067-01-2
Amlodipine Impurity H	318465-73-5
Amlodipine Impurity 1	

Apremilast

(S)-1-(3-Ethoxy-4-Methoxyphenyl)-2-(Methylsulfonyl)Ethanamine	608141-42-0
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Azilsartan

Azilsartan Acid Impurity	
Azilsartan Bis Impurity	
Azilsartan Des-Ethyl Impurity	
Azilsartan Ethyl Ester Impurity	
Azilsartan Impurity 1	
Azilsartan Impurity 2	
Azilsartan Impurity 3	
Azilsartan Impurity A	147404-76-0
Azilsartan Impurity B	1696392-11-6
Azilsartan Impurity C	1397836-49-5
Azilsartan Impurity D	1821386-21-3
Azilsartan Impurity E	136285-69-3
Azilsartan Impurity F	1863930-34-0
Azilsartan Impurity G	Na
Azilsartan Impurity H	Na
Azilsartan Impurity I	139481-33-7
Azilsartan Methyl Ester Impurity	Na

LIST OF IMPURITIES

Product

CAS No.

Allopurinol

Allopurinol Impurity A	Na
Allopurinol Impurity B	Na
Allopurinol Impurity C	Na
Allopurinol Impurity D	Na
Allopurinol Impurity E	Na
2-(Decyloxy)-5-Nitrophenol	Na
1-(2-Nitro-5-(Phenylthio)Phenylthio)Benzene	62049-82-5

Apixaban

4,5,6,7-Tetrahydro-1-(4-Methoxyphenyl)-7-Oxo-6-(4-(2-Oxopiperidin-1- Yl) Phenyl)-1h-Pyrazolo[3,4-C]Pyridine-3-Carboxamide	503612-47-3
Apixaban Impurity 2 (Bms-724914-01)	
Apixaban Impurity 29	
Apixaban Impurity 14	
Apixaban Impurity 15	
Apixaban Impurity 17	
Apixaban Impurity 18	
Apixaban Impurity 19	
Apixaban Impurity 20	
Apixaban Impurity 22	405872-78-8
5-Bromopentanoic Acid Ethyl Ester	14660-52-7

Atenolol

Atenolol Impurity A	17194-82-0
Atenolol Impurity B	61698-76-8
Atenolol Impurity C	29122-69-8
Atenolol Impurity D	115538-83-5
Atenolol Impurity J	81346-71-6

LIST OF IMPURITIES

Product

CAS No.

Bumetanide

Bumetanide(Ep Impurity A)	28328-53-2
Bumetanide(Ep Impurity B)	28328-54-3
Bumetanide(Ep Impurity C)	32643-00-8
Bumetanide(Ep Impurity D)	153012-65-8
Methyl 3-Nitro-4-Phenoxy-5- Sulfamoylbenzoate. Bumetanide(Impurity -5)	57939-04-5

Beclomethasone

Beclomethasone Impurity R	
Beclomethasone Impurity G	1186048-33-8
Beclomethasone Impurity V	205105-83-5

Betaxolol

Betaxolo Hcl Impurity A (Hcl)	464877-45-0
Betaxolo Hcl Impurity B	62572-94-5

Bupropion

Bupropion-2-Amino Impurity	119802-69-6
Bendroflumethiazide	
Bendroflumethiazide Impurity A	654-62-6

Buspirone

Buspin; 8-[4-[4-(2-Pyrimidinyl)-1-Piperazinyl]Butyl]-8-Azaspiro[4.5]Decane-7,9-Dione	36505-84-7
Brexpiprazole	
7-[4-(4-(Benzo[B]Thien-4-Yl)-Piperazin-1-Yl)Butoxy]-1h-Quinolin-2-One; Opc 34712	913611-97-9
Chlorthalidone	77-36-1
Chlorthalidone Related Compound A (USP)	5270-74-6
Chlorthalidone Impurity B (EP)	
Chlorthalidone Impurity J	956-95-3
Chlorthalidone Impurity G	16289-13-7

LIST OF IMPURITIES

Product

CAS No.

Chlorthalidone Impurity A

Na

Chlorthalidone Impurity D

1369995-36-7

Chlorthalidone Impurity E

82875-49-8

Chlorthalidone Impurity H

Clarithromycin

81103-11-9

Capacitabine

Capacitabine Related Compound C

921769-65-5

Colchicine

Colchicine Impurity E

7336-33-6

Clompiramine

Clompiramine Impurity G

1425793-87-8

Clozapine

Clozapine Impurity D

65514-71-8

Clozapine-N-Oxide

34233-69-7

Carvedilol

Carvedilol Impurity A

1076199-79-5

Citalopram

Citalopram Impurity D

1188264-72-3

Citalopram N-Oxide (Rc-E)

63284-72-0

Citalopram Impurity C

372941-54-3

Citalopram Impurity E

Citalopram Impurity G

1329745-98-3 (Base)

Citalopram Impurity A

64372-56-1

Citalopram Impurity B

411221-53-9

Citalopram Impurity F

64169-39-7 (Base)

479065-02-6 (HBr Salt)

Citalopram R-Isomer Oxalate

219861-53-7

LIST OF IMPURITIES

Product

CAS No.

Closantel

Closantel Impurity A

133-91-5

Closantel Impurity B

Closantel Impurity C

Closantel Impurity D

Closantel Impurity G

Closantel Impurity H

Candesartan

Candesartan Impurity A

139481-58-6

Diclofenac

Diclofenac Impurity A

15362-40-0

Diclofenac Isopropyl Impurity

66370-79-4

Diclofenac Methyl Ester Impurity

15307-78-5

Diclofenac Impurity F

560075-65-2

Diclofenac Ethyl Ester

15307-77-4

Domperidone

Domperidone Impurity A

53786-28-0

Domperidone Impurity B

1346598-11-5

Desvenlafaxine

Desvenlafaxine-N-Oxide

Drotaverine

Drotaverine-N-Oxide

Diclazuril

Diclazuril Impurity-B

112206-71-0

Diclazuril Impurity D

133648-81-4

Diclazuril Impurity -A

862243-46-7

Diclazuril Impurity-C

1797132-12-7

Diclazuril Impurity-F

133648-80-3

LIST OF IMPURITIES

Product

CAS No.

Dextromethorphan

Dextromethorphan	125-71-3
Dextromethorphan N-Oxide Hydrochloride	1177419-85-0
Dextromethorphan Impurity A	1531-25-5
Dextromethorphan Impurity B	125-73-5

Dabigatran

Dbg Sm 1	103041-38-9
Dbg Sm 2	41263-74-5
Dabigatran Impurity 8	429659-01-8
Dabigatran Impurity 9	
Dabigatran 3-Aminobenzoyl Impurity	
Dabigatran Impurity 2 (Dabrc-02)	42288-26-6
Dabigatran Impurity 9	
Dabigatran Acid Cyano Analog	212322-77-5
Dabigatran Impurity 3 (Dabrc-03)	211915-84-3
Dabigatran Impurity 1 (Dabrc-01)	429658-95-7
Dabigatran Isopropyl Ester Impurity	1610758-17-2
Dabigatran Jpba Impurity 5	1408238-37-8
Dabigatran Methylamino Impurity	212322-56-0

Dorzolamide

Dorzolamide Cis Impurity	120279-37-0
(4s,6s)-4-(Ethylamino)-6-Methyl-3a,5,6,7a-Tetrahydro-4h-Thieno[2,3-B]	130693-82-2;
Thiopyran-2-Sulfonamide 7,7-Dioxide	120279-96-1

Ethacrynic Acid

Ethacrynic Acid 1	
Ethacrynic Acid 2	1984-59-4
Ethacrynic Acid 3	
Ethacrynic Acid 4	

LIST OF IMPURITIES

Product

CAS No.

Estradiol

Ethinyl Estradiol Impurity D (Ep)	50-28-2
Estradiol Related Compound B, 6,7-Dehydro Estradiol,	7291-41-0

Famotidine

109467-08-5
(Dimaleate) 89268-62-2
129083-44-9
95399-71-6

Famotidine Impurity B

Famotidine Impurity E

Fosinopril

Fosinoprilat

Finofibrate

Finofibrate Impurity A	42019-78-3
Finofibrate Impurity B	42017-89-0
Finofibrate Impurity G	217636-48-1
Finofibrate Impurity C	217636-47-0
Finofibrate Impurity F	154356-96-4

Finasteride

Finasteride Impurity A	98319-24-5
Finasteride Impurity B	103335-41-7

Flecanide

Flecanide Impurity Ep C	152171-74-9
Hydroxy-2-Phenylpropyl Carbamate	25451-53-0
Felbamate	
Carbamic Acid Phenethyl Ester; Nsc 31196; Phenethyl Carbamate; Usp Felbamate Related Compound B;	6326-19-8
2-Phenyl-1,3-Propanediol	1570-95-2
Felbmate Dimer Impurity ; Felbamate Metabolite	25451-53-0
Felbmate Related Compound A	25451-53-0
2-Hydroxy Felbamate	109482-32-8
Para-Hydroxy Felbamate	109482-28-2

LIST OF IMPURITIES

Product

CAS No.

Hydroxy-2-Phenylpropyl Carbamate

25451-53-0

Felbamate Dimer Impurity

Famotidine Impurity B

(Dimaleate) 89268-62-2

Famotidine Impurity E

129083-44-9

Fosinopril

Fosinoprilat

95399-71-6

Finofibrate

Finofibrate Impurity A

42019-78-3

Finofibrate Impurity B

42017-89-0

Finofibrate Impurity G

217636-48-1

Finofibrate Impurity C

217636-47-0

Finofibrate Impurity F

154356-96-4

Finasteride

Finasteride Impurity A

98319-24-5

Finasteride Impurity B

103335-41-7

Flecainide

Flecainide Impurity Ep C

152171-74-9

Hydroxy-2-Phenylpropyl Carbamate

25451-53-0

Felbamate

Carbamic Acid Phenethyl Ester; Nsc 31196; Phenethyl Carbamate;
Usp Felbamate Related Compound B;

6326-19-8

2-Phenyl-1,3-Propanediol

1570-95-2

Felbmate Dimer Impurity ; Felbamate Metabolite

25451-53-0

Felbmate Related Compound A

25451-53-0

2-Hydroxy Felbamate

109482-32-8

Para-Hydroxy Felbamate

109482-28-2

Hydroxy-2-Phenylpropyl Carbamate

25451-53-0

Felbamate Dimer Impurity

LIST OF IMPURITIES

Product

CAS No.

Galanthamine

Galanthamine Impurity B	1668-85-5
Galanthamine Impurity D	664995-65-7
O-Desmethyl Galanthamine	60755-80-8

Glimipride

Glimipride Impurity B	119018-29-0
Glimipride Impurity A	684286-46-2
Glimipride Impurity C	119018-30-3
Glimipride Impurity D	791104-62-6

Hydroxyzine

Hydroxyzine Related Compound A	303-26-4
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Haloperidol

4-[4-(4-Chlorophenyl)-4-Hydroxy-1-Piperidinyl]-1-(4-Fluorophenyl)-1-Butanone; R-1625; Aloperidin; Bioperidolo; Brotopon; Dozic; Einalon S	52-86-8
Haloperidol Deschloro Impurity A	
Haloperidol Deschloro Impurity H	148406-51-3
Haloperidol Deschloro Impurity G	52669-92-8
Haloperidol Dimer Impurity	
Haloperidol Deschloro Impurity B	1391052-53-1

Irbesartan

Irbesartan Impurity A	748812-53-5
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Lurasidone

Lurasidone Mono Oxide(Dp-4)	Na
Lurasidone Di Oxide(Dp-5)	Na

LIST OF IMPURITIES

Product

CAS No.

Leflunomide

4-Isoxazolecarboxamide,5-Methyl-N-(2- (Trifluoromethyl)Phenyl), Leflunomide Impurity F [EP]	1403564-06-6
Methylisoxazole-4-(3- Trifluoromethyl) Carboxanilide; Leflunomide 3- Isomer	61643-23-0
3-Methylisoxazole-4-Carboxylic Acid	17153-20-7
5-Desmethyl-3-Methyl Leflunomide	208401-20-1
4-Amino-N-[4-(Trifluoromethyl)Phenyl]Benzamide	1011244-72-6
N-(4- Trifluoromethylphenyl)Cyanoacetamide; 2-Cyano-N-[4- (Trifluoromethyl)Phenyl]- Acetamide	24522-30-3

Labetalol

Labetalol Impurity A	
Labetalol Impurity B	1391051-99-2
Labetalol Impurity B (Free Base)	802620-01-5
Labetalol Impurity C	
Labetalol Impurity G	

Lansoprazole

Lansoprazole Sulphone N-Oxide	953787-54-7
Lansoprazole Impurity C	103577-40-8

Levofloxacin

Levofloxacin Carboxylic Acid	100986-89-8
Levofloxacin-N-Oxide	117678-38-3

Loperamide

Loperamide Impurity B	
Loperamide Impurity G	106900-12-3

Loratidine

Loratidine-N-Oxide	165739-62-8
Loratidine Impurity D	100643-71-8

LIST OF IMPURITIES

Product

CAS No.

Metoprolol

Metoprolol Ep Impurity A, Metoprolol Related Compound A.	109632-08-8
Metoprolol Impurity B	56718-76-4
4-[Metoprolol Impurity C	29122-74-5
Metoprolol Ep Impurity O, Metoprolol Related Compound D.	154784-36-8 Free
1,1-[(1-Methylethyl)Imino]Bis[3-[4-(2-Methoxyethyl)Phenoxy] Propan-2-ol]	1486464-40-7 (Hcl Salt)

Mesalamine

Mesalamine Impurity H	69-72-7
Mesalamine Impurity I	3147-53-3
Mesalamine Impurity L	118-91-2
Mesalamine Impurity O	88-21-1
Mesalamine Impurity Q	3970-35-2

Metoclopramide

Metoclopramide Impurity H	50-86-2
Mefenamic Acid	
Mefenamic Acid Impurity C	118-91-2
Mefenamic Acid Impurity D	65-85-0
Milnacipram	
1-Phenyl-3-Oxabicyclo[3.1.0]Hexan-2-One	63106-93-4

Memantine

3,5-Dimethyltricyclo[3.3.1.1 ^{3,7}]Decan-1-Amine	19982-08-2
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Montelukast

Montelukast Sulfoxide	909849-96-3
Montelukast Ep Impurity B, Styrene Imp	918972-54-0
Montelukast Impurity 13	
Montelukast Impurity Diol	
Montelukast Ep Impurity D Or E , Michal Adduct	

LIST OF IMPURITIES

Product

CAS No.

Nabumetone

4-(6-Methoxy-2-Naphthalenyl)-2-Butanone; 1-(2'-Methoxynaphth-6'-yl)Butan-3-One; 4-(6-Methoxy-2-Naphthyl)-2-Butanone;	42924-53-8
2-Hydroxy Nabumetone	65726-24-1

Oflaxacin

Oflaxacin Impurity E	82419-52-1
Oxybutynin	
Oxybutynin Related Compound A	4335-77-7
Phenylcyclohexylglycolic Acid Propargyl Ester	81039-74-9

Pioglitazone

Pioglitazone Hcl	112529-15-4
Pioglitazone Impurity A (5-Hydroxy Pioglitazone)	625853-74-9
Pioglitazone Ep Impurity B	136401-69-9
Pioglitazone Ep Impurity C	952188-00-0
Pioglitazone Aldehyde Impurity	114393-97-4
Pioglitazone Amino Impurity	85583-40-0
Pioglitazone Bromo Impurity	669716-58-9
Pioglitazone M1 Metabolite	74772-78-4
Pioglitazone Impurity	2295-31-0
Pioglitazone Impurity	03/06/5223
Pioglitazone Impurity	103788-60-9

Paracetamol

Paracetamol Impurity J	539-03-7
Paracetamol Impurity F	100-02-7
Paracetamol Impurity K	51-78-5

Propafenone

Propafenone Impurity A	3516-95-8
Propafenone Impurity C	22525-95-7
Propafenone Impurity E	165279-79-8

LIST OF IMPURITIES

Product

CAS No.

Promethazine

Promethazine Impurity D

7640-51-9

Paclitaxel

Paclitaxel Related Compound B

78454-17-8

Propranolol

Propranolol Impurity A

36112-95-5

Propranolol Impurity C

17216-10-3

Pregabalin

Pregabalin R Isomer

148553-51-9

Pregabalin Lactam Impurity

61312-87-6

Quetiapine

Quetiapine Ep Impurity D

945668-94-0

Quetiapine Ep Impurity G

07/07/3159

Quetiapine Dbtc Impurity

13745-86-3

Quetiapine Ep Impurity I

329216-67-3

Quetiapine Ep Impurity A

844639-07-2

Quetiapine Ep Impurity B

111974-74-4

Quetiapine Ep Impurity H

1076199-40-0

Quetiapine Ep Impurity O

844639-06-1

Quetiapine Ep Impurity P

1011758-03-4

Quetiapine Ep Impurity D

945668-94-0

Quinapril

Quinapril Impurity C

82768-85-2

Roxithromycin

N,N-Didesmethyl Roxithromycin

Roxithromycin Impurity F

118267-18-8

Rabeprazole

Rabeprazole Impurity B

924663-37-6

Rabeprazole Impurity A

117976-47-3

LIST OF IMPURITIES

Product

CAS No.

Ramipril

Ramipril Impurity D

108731-95-9

Ramipril Impurity B

295328-72-2

Risperidone

Risperidone Impurity C

144598-75-4

Risperidone-N-Oxide

832747-55-4

Risperidone Impurity E

1346602-28-5

Ranitidine

Ranitidine Impurity B

66356-53-4

Rosuvastatin

Rosuvastatin Lactone

503610-43-3

Raloxifene

Raloxifene Related Compound C

195454-31-0

Ranolazine

Ranolazine-N-Oxide

2-[(2-Methoxyphenoxy)Methyl]Oxirane. Ranolazine (Related Compound A)

2210-74-4

3-(O-Methoxyphenoxy)-1,2-Propanediol; Ranolazine (Impurity B)

93-14-1

N-(2,6-Dimethylphenyl)-1- Piperazineacetamide

5294-61-1

1,3-Bis(2-Methoxyphenoxy)Propan-2-ol; Ranolazine Impurity

333749-57-8

2-(4-(3-(4-Methoxyphenoxy)-2-Hydroxypropyl)Piperazin-1-yl)-N-(2,6- Dimethylphenyl)Acetamide

2-((4-Methoxyphenoxy)Methyl)Oxirane

Solifenacin

Solifenacin Impurity D

180272-28-0

Sertraline

Sertraline Impurity G

79617-95-1

LIST OF IMPURITIES

Product

CAS No.

Teriflunomide

Teriflunomide Ortho Isomer

Teriflunomide Meta Isomer

Tirofiban

Tirofiban Impurity A

149490-60-8

Tirofiban Impurity B Hcl

149463-65-0

Tetracycline

Tetracycline Dehydro Impurity

Tramadol

Tramadol-N-Oxide

147441-56-3

2914-77-2;

Tramadol Impurity A

152538-36-8 (Freebase);

73806-49-2

Tramadol Impurity B

66170-32-9

Tramadol Impurity D

185453-02-5 HCL

80456-81-1 (FB)

Tramadol Impurity C

905592-54-3 (Free Base)

Telmisartan

Telmisartan Impurity F

915124-86-6

Telmisatran Related Compound A

152628-02-9

Thiocholchicoside

3-O-Desmethyl Thiocholchicine

87424-25-7

N-Deacetyl-N-Formyl Thiocholchicoside

219547-29-2

N-Deacetyl-3-Demethyl Thiocholchicine

97043-09-9

Thiocholchicoside S-Oxide

Trospium

Trospium Chloride Related Compound A

76-93-7

Trospium Impurity D

467-32-3

LIST OF IMPURITIES

Product

CAS No.

Tamsulosin

Tamsulosin Impurity D	80223-96-7
Tamsulosin HCL Impurity G	80223-99-0; 106463-19-8 Racemate

Tamoxifen

Tamoxifen-N-Oxide	75504-34-6
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Vortioxetine

Vortioxetine Metabolite	
Vortioxetine	508233-74-7
Vortioxetine Impurity 19 (Vortioxetine Sulfoxide)	1429908-35-9
Vortioxetine Impurity 31 (2,4-Dimethylbenzenethiol)	13616-82-5
Vortioxetine Impurity 14	1240670-85-2
Vortioxetine Impurity 16	16704-47-5
Vortioxetine Impurity 18	13616-83-6
Vortioxetine Impurity 20	1446750-99-7
Vortioxetine Impurity 24	
Vortioxetine Impurity 25	1639263-80-1
Vortioxetine Impurity 29	
Vortioxetine Impurity 32	1610527-49-5
Vortioxetine Impurity 33	1019453-85-0
N-Acetyl Vortioxetine	

Valaciclovir

Valaciclovir Ep Impurty D	1346747-69-0
Valaciclovir Ep Impurty F	86150-61-0
Valaciclovir Ep Impurty M	847670-62-6

Warfarin

4-Hydroxy-3-(3-Oxo-1-Phenyl-Butyl)-2H-1-Benzopyran-2-One; 3-(A- Acetonylbenzyl-4-Hydroxy-Coumarin; Warf Compound 42	81-81-2
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