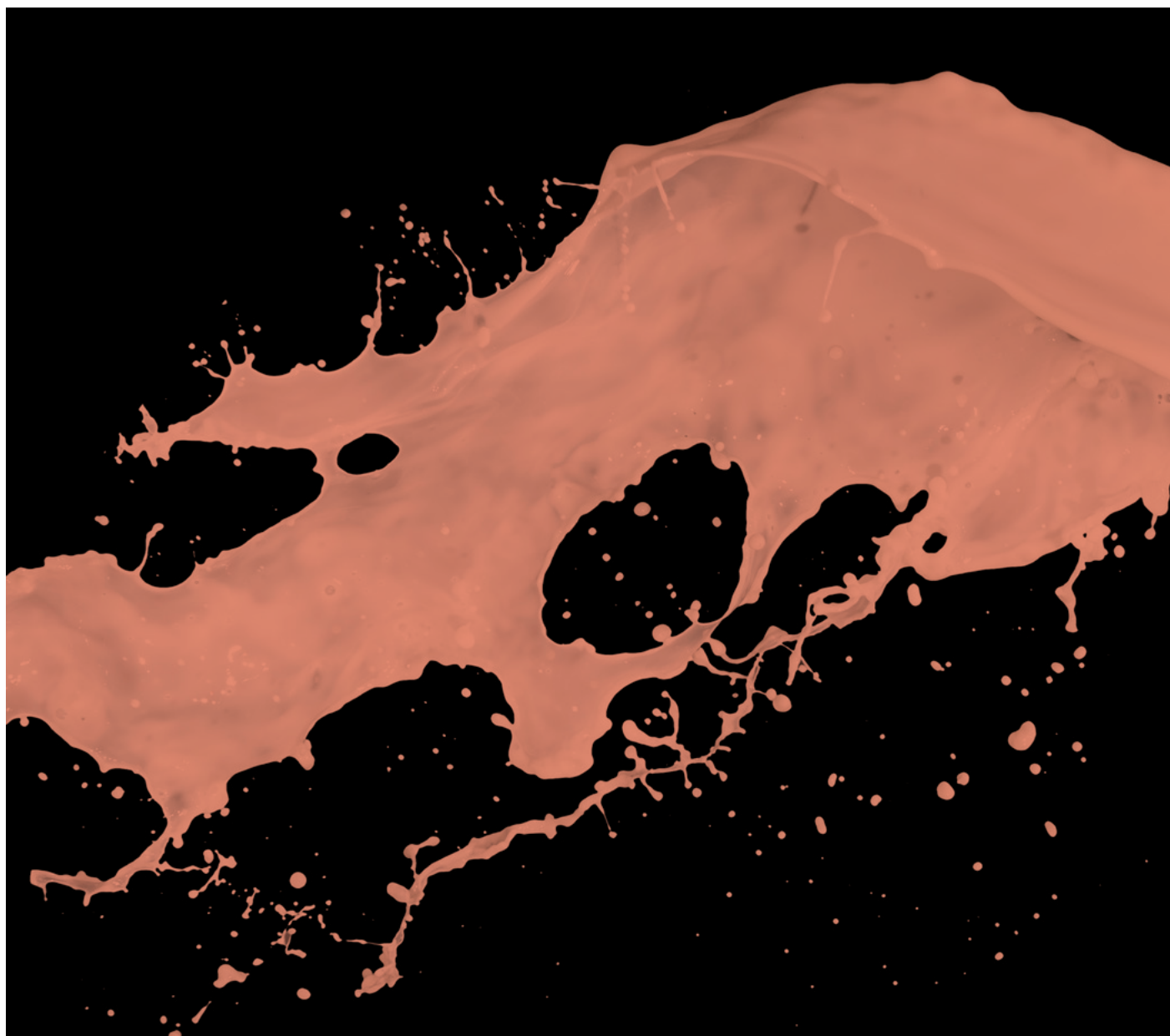




Degradation reference materials 2017

Esterification



Welcome to LGCs degradation reference standards with focus on esterification products.

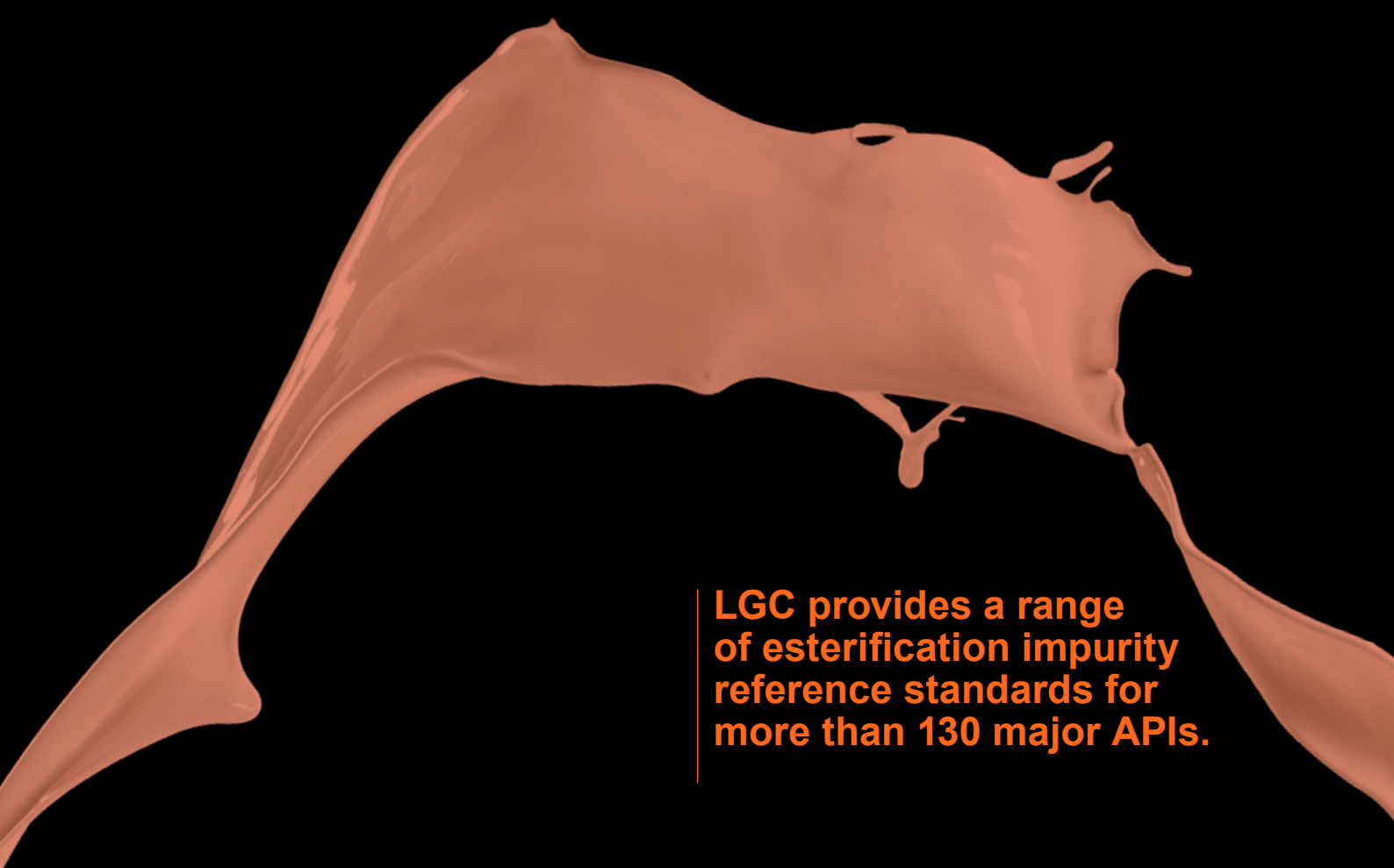
Unwanted esters of Active Pharmaceutical Ingredients (APIs) can be formed through a number of pathways, including transesterification, carbonylation, addition of carboxylic acids and other mechanisms.

LGC's impurity reference standards are designed to be used at all relevant stages of the testing chain. They allow the correct identification and quantification of any esters formed during manufacturing or storage. Our impurities allow for an assessment of an API's purity and can be used to help assess the product's shelf life.

Each impurity is accompanied by a detailed certificate of analysis, providing all the information you need to best use the reference material. Our products can be used with confidence during analytical research and development and validation studies as well as for stability monitoring and routine quality control purposes.

Visit our webshop [lgcstandards.com](https://www.lgcstandards.com)

To find out more contact your local [LGC office](#).



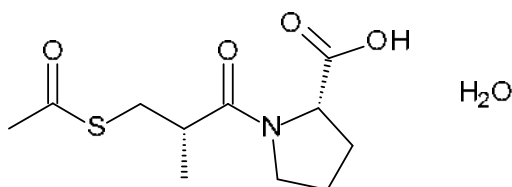
LGC provides a range of esterification impurity reference standards for more than 130 major APIs.



Certificate of Analysis

Reference Standard

(2S)-1-[(2S)-3-(Acetylsulfanyl)-2-methylpropanoyl]pyrrolidine-2-carboxylic Acid Hydrate (Acetylcaptopril Hydrate)



Molecular Formula: $C_{11}H_{17}NO_4S \cdot H_2O$
Molecular Weight: 277.34
CAS Number: [801293-45-8]

Catalogue Number: MM0067.05
Lot Number: 59066
Long-term Storage: 2 to 8 °C, dark
Appearance: white solid
Melting Point: 81 °C
Assay 'as is': 99.3 %

Date of shipment: **2017-July-21**

This certificate is valid for two years from the date of shipment provided the substance is stored under the recommended conditions.



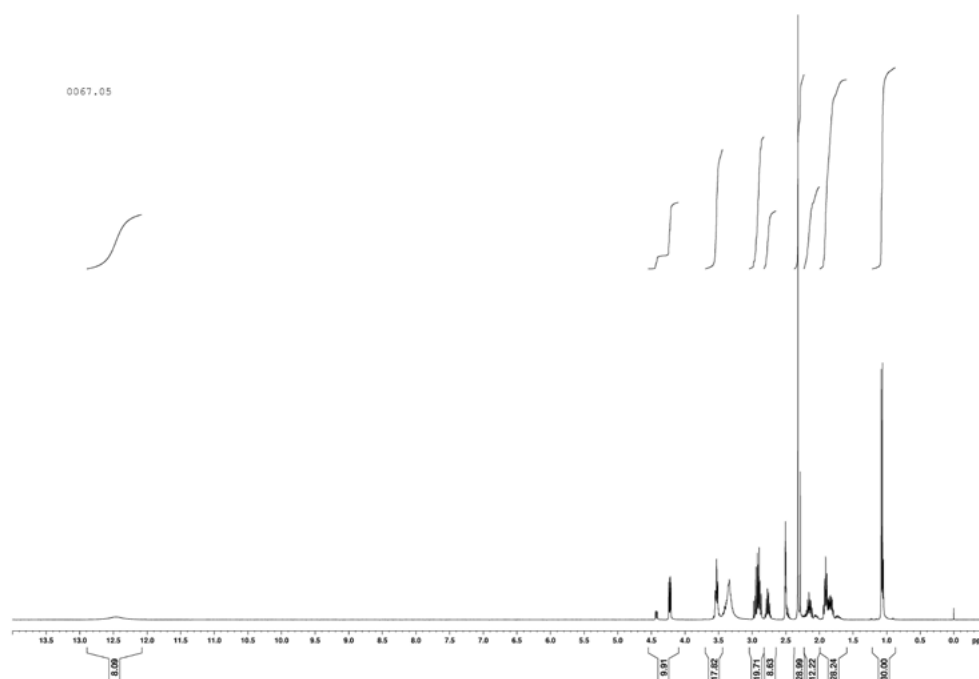
I. Identity

The identity of the reference substance was established by following analyses.

Ia. ^1H -NMR Spectrum

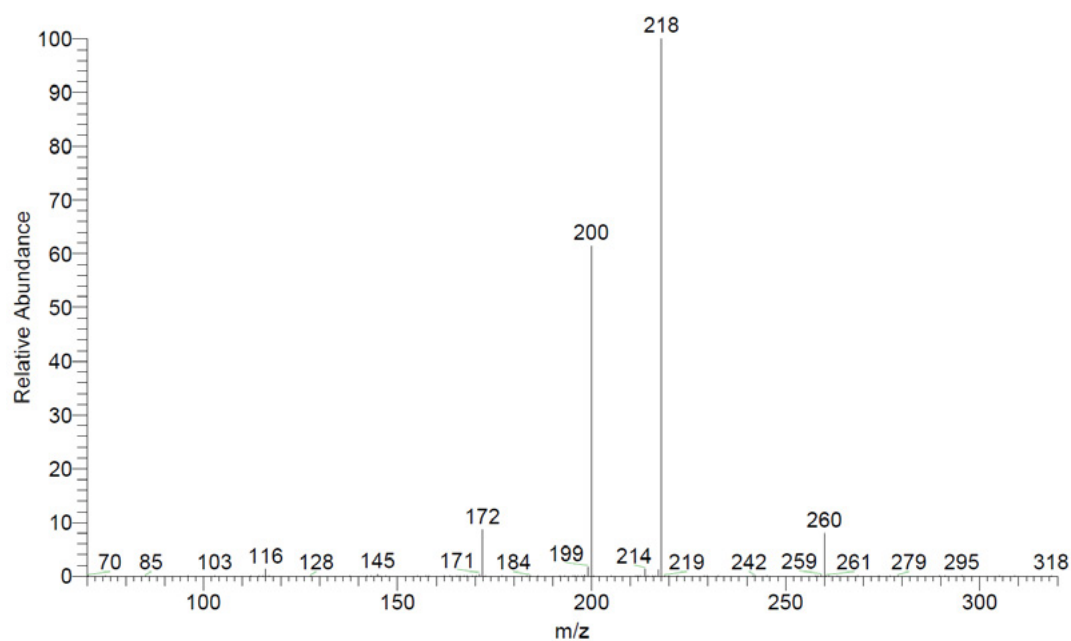
Conditions: 400 MHz, DMSO- d_6

The structure is confirmed with the signals of the spectrum and their interpretation.



**Ib. Mass Spectrum**

Method: 4.5 kV ESI; vaporization temperature: 200 °C, direct inlet



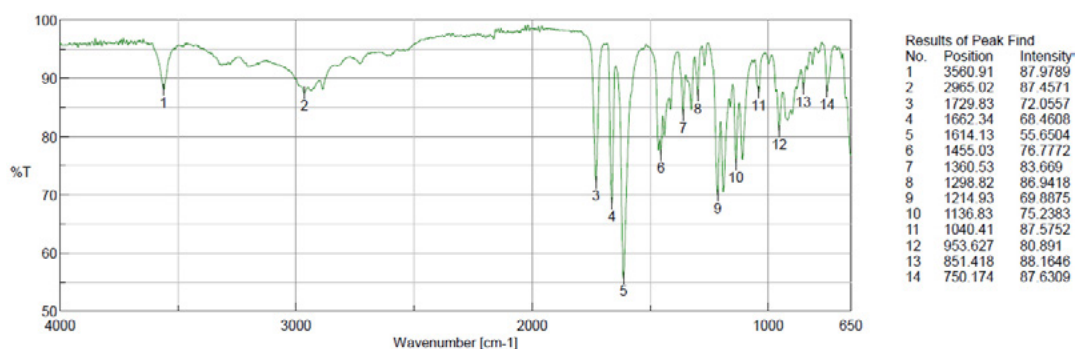
m/z	fragments (M = anhydrous base)
260	[MH]
218	[MH – C ₃ H ₆]
200	[MH – C ₂ H ₃ O – OH]
172	[MH – C ₂ H ₃ O – COOH]

The signals of the mass spectrum and their interpretation are consistent with the structural formula.



Ic. IR Spectrum

Method: Attenuated Total Reflection Fourier Transform Infrared (ATR-FTIR) Spectroscopy



The signals of the IR spectrum and their interpretation are consistent with the structural formula.

II. Purity

The purity of the reference substance was analysed by high performance liquid chromatography (HPLC).

HPLC Conditions:

Column:

SymmetryShield RP-18
5 µm, 150 x 3.9 mm

Conditions:

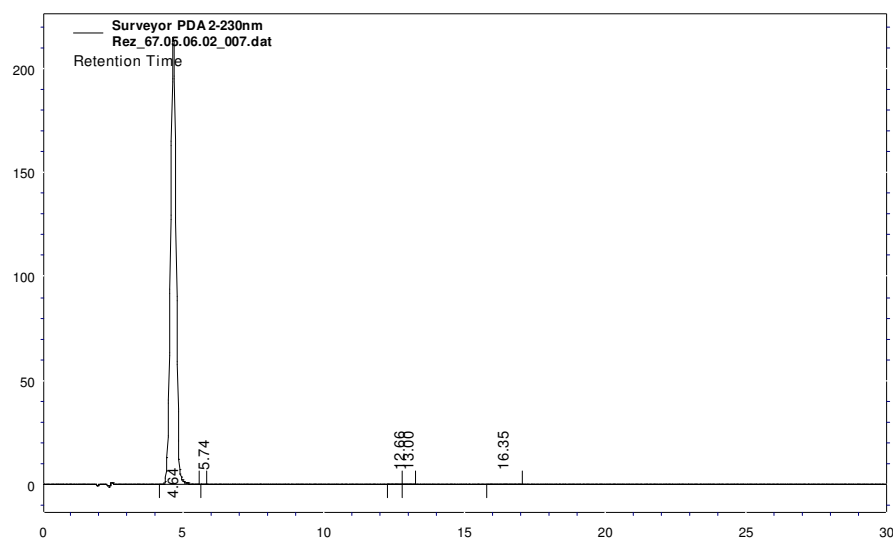
0.5 ml/min, 40 °C
Water/Acetonitrile 75/25 (v/v);
0.1 % H₃PO₄

Detector:

DAD
230 nm

Injector:

Auto
8 µl; 0.0372 mg/ml in
Water/Acetonitrile 50/50 (v/v)



Area Percent Report - Sorted by Signal

Pk #	Retention Time	Area	Area %
1	4.64	2830546	99.41
2	5.74	355	0.01
3	12.66	1216	0.04
4	13.00	1556	0.05
5	16.35	13770	0.48
Totals		2847443	100.00

For the calculation the system peaks were ignored. The content of the analyte was determined as ratio of the peak area of the analyte and the cumulative areas of the purities, added up to 100 %.

Results:

Average	99.41 %
Number of results	n=6
Standard deviation	0.03 %



III. Water Content

Method: Karl Fischer titration

Determined value	6.60 %
Theoretical value	– 6.50 %
Content of excessive water	0.10 %

IV. Residual Solvents

Method: $^1\text{H-NMR}$

No significant amounts of residual solvents were detected (< 0.05 %).

V. Final Result

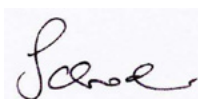
Total impurities (HPLC)	0.59 %
Water content	0.10 %
Residual solvents	No significant amounts of residual solvents were detected (< 0.05 %).
Assay (100 % method)¹	99.31 %

The assay is assessed to be 99.3 % 'as is'

The assay 'as is' is equivalent to the assay based on the not anhydrous and not dried substance respectively.

Release Date: 2014-09-26

LGC GmbH



Dr. Sabine Schröder
Product Release

¹ The calculation of the 100 % method follows the formula:

$$\text{Assay (\%)} = (100 \% - \text{KF} - \text{RES}) \times \frac{\text{Purity HPLC (\%)}}{100 \%}$$

Water (KF) and Residual solvents (RES) are considered as absolute contributions, HPLC purity is considered as relative contribution.

A–Z of products

Esterification

A.

4-Aminobenzoic Acid —
Atorvastatin Calcium Trihydrate

B.

Baclofen — Butyl Parahydroxybenzoate

C.

Calcium Pantothenate — Codeine

D.

Dexamethasone — Diflunisa

E.

Emtricitabine — Eugenol

F.

Felbinac — Fumaric Acid

G.

Gemfibrozil

H.

Harpagoside — Hymecromone

I.

Ibufenac — Indometacin

K.

Ketoprofen — Ketorolac Trometamol

L.

Lacidipine — Losartan Potassium

M.

Mandelic Acid — Mycophenolate Sodium

N.

Nalidixic Acid — Norfloxacin

O.

Ofloxacin — Oxolinic Acid

P.

Paracetamol — Pyridoxine Hydrochloride

Q.

Salicylic Acid — Sulindac

R.

Testosterone — Tyrosine

S.

Salicylic Acid — Sulindac

T.

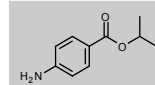
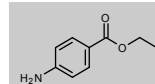
Testosterone — Tyrosine

V.

Valproic Acid — Valsartan

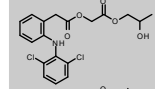
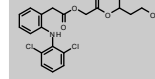
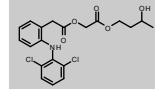
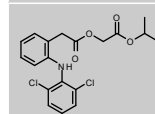
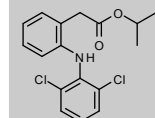
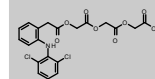
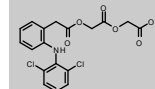
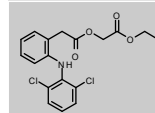
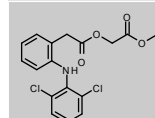
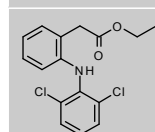
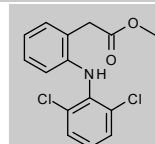
4-Aminobenzoic Acid

MM0094.00	Imp. B (EP): Ethyl 4-Aminobenzoate (Benzocaine)	94-09-7	500mg
MM1255.08	Isopropyl 4-Aminobenzoate	18144-43-9	100mg

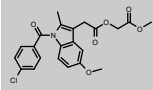
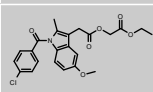
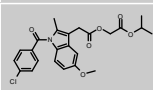
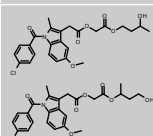
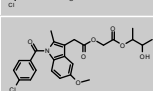
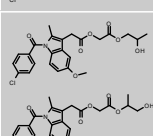
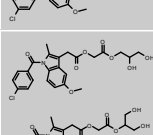
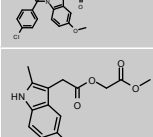
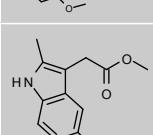
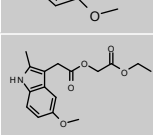
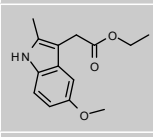
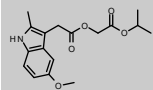


Aceclofenac

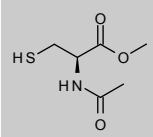
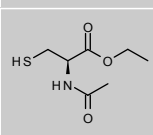
MM0006.10	Imp. B (EP): Methyl [2-[(2,6-Dichlorophenyl)amino]phenyl]acetate (Methyl Ester of Diclofenac)	15307-78-5	100mg
MM0006.11	Imp. C (EP): Ethyl [2-[(2,6-Dichlorophenyl)amino]phenyl]acetate (Ethyl Ester of Diclofenac)	15307-77-4	100mg
MM0181.01	Imp. D (EP): Methyl [[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetate (Methyl Ester of Aceclofenac)	139272-66-5	100mg
MM0181.02	Imp. E (EP): Ethyl [[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetate (Ethyl Ester of Aceclofenac)	139272-67-6	100mg
MM0181.04	Imp. G (EP): [[[[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetyl]oxy]acetic Acid (Acetic Aceclofenac)	n/a	100mg
MM0181.05	Imp. H (EP): [[[[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetyl]oxy]acetyl]oxy]acetic Acid (Diacetic Aceclofenac)	1216495-92-9	50mg
MM0181.06	Isopropyl [2-[(2,6-Dichlorophenyl)amino]phenyl]acetate (Isopropyl Ester of Diclofenac)	66370-79-4	100mg
MM0181.11	Acceclofenac Isopropyl Ester	n/a	100mg
MM0181.12	Acceclofenac 1,3-Butylene Glycol Esters (Mixture of Isomers)	n/a	100mg
MM0181.14	Acceclofenac 1,2-Propylene Glycol Esters (Mixture of Isomers)	n/a	100mg



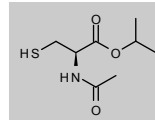
Acemetacin

MM1728.01	Acemetacin Methyl Ester	681838-84-6	100mg	
MM1728.02	Acemetacin Ethyl Ester	76812-43-6	100mg	
MM1728.03	Acemetacin Isopropyl Ester	n/a	100mg	
MM1728.05	Acemetacin 1,3-Butylene Glycol Esters (Mixture of Isomers)	n/a	100mg	
MM1728.06	Acemetacin 2,3-Butylene Glycol Ester	n/a	100mg	
MM1728.07	Acemetacin 1,2-Propylene Glycol Esters (Mixture of Isomers)	n/a	100mg	
MM1728.08	Acemetacin 1,2,3-Propanetriol Esters (Mixture of Isomers)	n/a	100mg	
MM1728.09	(2-Methoxy-2-oxoethyl) 2-(5-Methoxy-2-methyl-1H-indol-3-yl) acetate	n/a	100mg	
MM1728.10	Methyl 2-(5-Methoxy-2-methyl-1H-indol-3-yl)acetate	7588-36-5	100mg	
MM1728.11	(2-Ethoxy-2-oxoethyl) 2-(5-Methoxy-2-methyl-1H-indol-3-yl) acetate	n/a	100mg	
MM1728.12	Ethyl 2-(5-Methoxy-2-methyl-1H-indol-3-yl)acetate	17536-38-8	100mg	
MM1728.13	(2-Isopropoxy-2-oxoethyl) 2-(5-Methoxy-2-methyl-1H-indol-3-yl) acetate	n/a	100mg	

Acetylcysteine

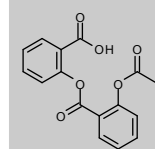
MM0024.08	N-Acetyl-L-cysteine Methyl Ester	7652-46-2	100mg	
MM0024.09	N-Acetyl-L-cysteine Ethyl Ester	59587-09-6	100mg	

[MM0024.10](#) N-Acetyl-L-cysteine Isopropyl Ester 73255-51-3 100mg

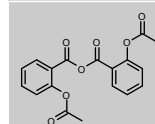


Acetylsalicylic Acid

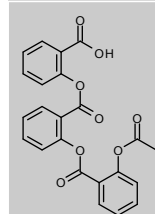
[MM0133.01](#) **Imp. D** (EP): 2-[[2-(Acetyloxy)benzoyl]oxy]-benzoic Acid (Acetylsalicylsalicylic Acid) 530-75-6 100mg



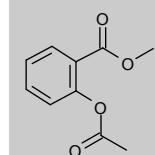
[MM0133.02](#) **Imp. F** (EP): 2-(Acetyloxy)benzoic Anhydride (Acetylsalicylic Anhydride) 1466-82-6 100mg



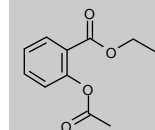
[MM0133.09](#) Acetylsalicylsalicylsalicylic Acid 85531-16-4 50mg



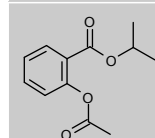
[MM0133.12](#) Methyl Acetylsalicylate 580-02-9 100mg



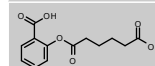
[MM0133.13](#) Ethyl Acetylsalicylate 529-68-0 100mg



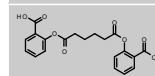
[MM0133.14](#) Isopropyl Acetylsalicylate 2224-88-6 50mg



[MM0133.19](#) Hexanedioic Acid Mono-(2-carboxyphenyl) Ester 863985-44-8 50mg

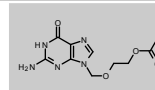


[MM0133.20](#) Hexanedioic Acid Bis-(2-carboxyphenyl) Ester 69638-07-9 100mg



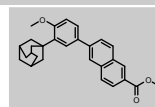
Aciclovir

[MM0061.01](#) **Imp. A** (EP): 2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl Acetate 102728-64-3 100mg



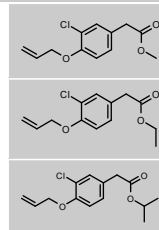
Adapalene

[MM0681.06](#) Methyl 6-[3-(1-Adamantyl)-4-methoxyphenyl]-2-naphthoate (Adapalene Methyl Ester) 106685-41-0 100mg



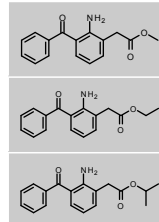
Alclofenac

MM1783.01	Alclofenac Methyl Ester	23918-07-2	100mg
MM1783.02	Alclofenac Ethyl Ester	20788-45-8	100mg
MM1783.03	Alclofenac Isopropyl Ester	69801-29-2	100mg



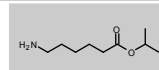
Amfenac Sodium Monohydrate

MM3533.01	Amfenac Methyl Ester	61941-58-0	100mg
MM3533.02	Amfenac Ethyl Ester	61941-57-9	100mg
MM3533.03	Amfenac Isopropyl Ester	n/a	100mg



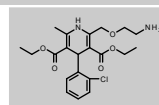
Aminocaproic Acid

MM0896.03	6-Aminocaproic Acid Isopropyl Ester	3173-76-0	100mg
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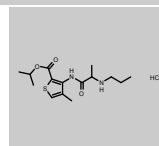
Amlodipine Besilate

MM0383.10	Imp. E (EP): Diethyl (4 <i>RS</i>)-2-[(2-Aminoethoxy)methyl]-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate	140171-65-9	100mg
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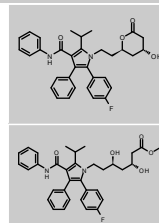
Articaine Hydrochloride

MM0369.03	Imp. C (EP) as Hydrochloride: 1-Methyl-ethyl 4-Methyl-3-[[[(2 <i>RS</i>)-2-(propylamino)-propanoyl]amino]thiophene-2-carboxylate Hydrochloride (Articaine Isopropyl Ester Hydrochloride)	n/a	100mg
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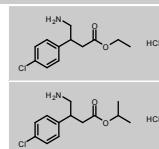
Atorvastatin Calcium Trihydrate

MM0400.01	Imp. H (EP): (4 <i>R</i> ,6 <i>R</i>)-6-[2-[2-(4-Fluorophenyl)-5-(1-methylethyl)-3-phenyl-4-(phenylcarbamoyl)-1 <i>H</i> -pyrrol-1-yl]ethyl]-4-hydroxytetrahydro-2 <i>H</i> -pyran-2-one (Atorvastatin Lactone)	125995-03-1	100mg
MM0400.02	Atorvastatin Methyl Ester	345891-62-5	100mg

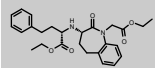
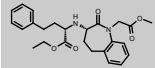
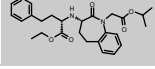


Baclofen

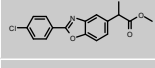
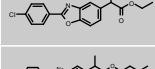
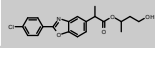
MM1235.08	Baclofen Ethyl Ester Hydrochloride	204503-99-1	100mg
MM1235.09	Baclofen Isopropyl Ester Hydrochloride	1332869-11-0	100mg



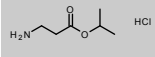
Benazepril Hydrochloride

MM1229.02	Imp. G (EP): Ethyl (2S)-2-[[[(3S)-1-(2-Ethoxy-2-oxoethyl)-2-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-3-yl]amino]-4-phenylbutanoate (Benazepril Ethyl Ester)	103129-58-4	100mg	
MM1229.09	Benazepril Methyl Ester	n/a	100mg	
MM1229.10	Benazepril Isopropyl Ester	n/a	100mg	

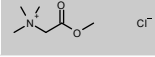
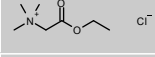
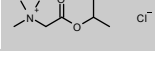
Benoxaprofen

MM1828.01	Benoxaprofen Methyl Ester	87498-09-7	100mg	
MM1828.02	Benoxaprofen Ethyl Ester	51234-41-4	100mg	
MM1828.04	Benoxaprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	

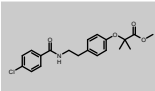
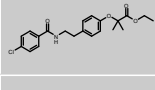
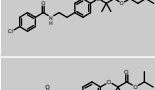
Beta Alanine

MM3497.04	Beta Alanine Isopropyl Ester Hydrochloride	51871-17-1	100mg	
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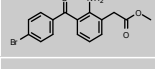
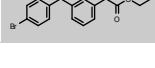
Betaine Hydrochloride

MM0611.01	Betaine Methyl Ester Chloride	3032-10-8	100mg	
MM0611.02	Betaine Ethyl Ester Chloride	3032-11-9	100mg	
MM0611.03	Betaine Isopropyl Ester Chloride	110675-64-4	100mg	

Bezafibrate

MM0063.04	Imp. C (EP): Methyl 2-[4-[2-[(4-Chloro-benzoyl)amino]ethyl]phenoxy]-2-methylpropanoate	n/a	100mg	
MM0063.02	Imp. D (EP): Ethyl 2-[4-[2-[(4-Chloro-benzoyl)amino]ethyl]phenoxy]-2-methylpropanoate	41859-58-9	100mg	
MM0063.05	Imp. E (EP): Butyl 2-[4-[2-[(4-Chloro-benzoyl)amino]ethyl]phenoxy]-2-methylpropanoate	n/a	100mg	
MM0063.08	Bezafibrate Isopropyl Ester	153758-85-1	100mg	

Bromfenac Sodium Sesquihydrate

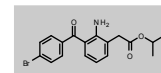
MM3532.01	Bromfenac Methyl Ester	n/a	100mg	
MM3532.02	Bromfenac Ethyl Ester	102414-22-2	100mg	

[MM3532.03](#)

Bromfenac Isopropyl Ester

n/a

100mg

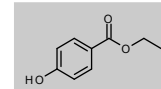


Butyl Parahydroxybenzoate

[MM0498.00](#)
Imp. C (EP): Ethyl 4-Hydroxybenzoate (Ethyl Parahydroxybenzoate)

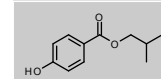
120-47-8

500mg


[MM0496.05](#)
Imp. E (EP): 2-Methylpropyl 4-Hydroxybenzoate (Isobutyl Parahydroxybenzoate)

4247-02-3

100mg



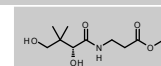
Calcium Pantothenate

[MM1499.01](#)

Methyl Pantothenate

50692-78-9

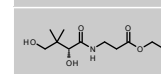
50mg


[MM1499.02](#)

Ethyl Pantothenate

10527-68-1

50mg

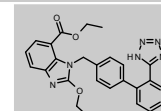


Candesartan Cilexetil

[MM0776.01](#)
Imp. A (EP): Ethyl 2-Ethoxy-1-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylate

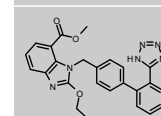
139481-58-6

100mg


[MM0776.10](#)
Imp. I (EP): Methyl 2-Ethoxy-1-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylate (Candesartan Methyl Ester)

139481-69-9

100mg

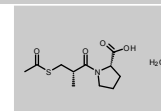


Captopril

[MM0067.05](#)
Imp. J (EP) as Hydrate: (2S)-1-[(2S)-3-(Acetylsulfonyl)-2-methylpropanoyl]-pyrrolidine-2-carboxylic Acid Hydrate (Acetylcaptopril Hydrate)

801293-45-8

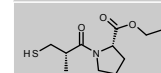
100mg


[MM0067.03](#)

Captopril Ethyl Ester

86938-12-7

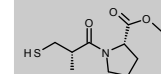
100mg


[MM0067.19](#)

Captopril Methyl Ester

176036-41-2

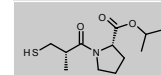
100mg


[MM0067.20](#)

Captopril Isopropyl Ester

176036-42-3

100mg

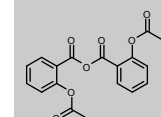


Carbasalate Calcium

[MM0133.02](#)
Imp. A (EP): 2-(Acetyloxy)benzoic Anhydride (Acetylsalicylic Anhydride)

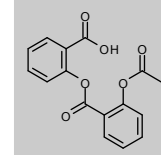
1466-82-6

100mg


[MM0133.01](#)
Imp. B (EP): 2-[[2-(Acetyloxy)benzoyl]oxy]benzoic Acid (Acetylsalicylsalicylic Acid)

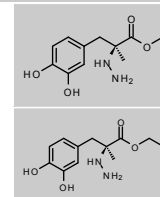
530-75-6

100mg



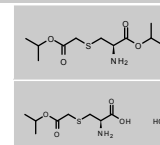
Carbidopa

MM1501.04	Imp. E (EP): Methyl (2S)-3-(3,4-Dihydroxyphenyl)-2-hydrazino-2-methylpropanoate (Carbidopa Methyl Ester)	52514-63-3	100mg
MM1501.05	Imp. F (EP): Ethyl (2S)-3-(3,4-Dihydroxyphenyl)-2-hydrazino-2-methylpropanoate (Carbidopa Ethyl Ester)	1458640-32-8	100mg



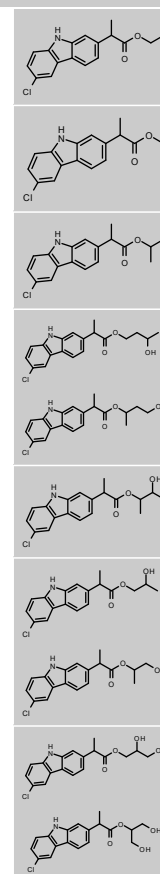
Carbocysteine

MM0236.09	Carbocysteine Diisopropyl Ester	792135-12-7	100mg
MM0236.14	S-[2-(1-Methylethoxy)-2-oxoethyl]-L-cysteine Hydrochloride	n/a	100mg



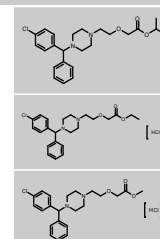
Carprofen

MM1484.02	Imp. G (EP): Ethyl (2RS)-2-(6-Chloro-9H-carbazol-2-yl) propanoate (Carprofen Ethyl Ester)	52262-89-2	100mg
MM1484.03	Carprofen Methyl Ester	52263-88-4	100mg
MM1484.04	Carprofen Isopropyl Ester	n/a	100mg
MM1484.05	Carprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg
MM1484.06	Carprofen 2,3-Butylene Glycol Ester	n/a	100mg
MM1484.07	Carprofen 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg
MM1484.08	Carprofen 1,2,3-Propanetriol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg

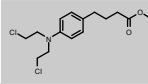
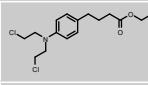
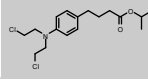


Cetirizine Dihydrochloride

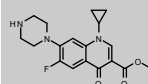
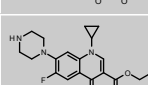
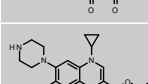
MM0380.08	Isopropyl Ester of Cetirizine	324047-27-0	100mg
MM0380.15	Ethyl Ester of Cetirizine Dihydrochloride	n/a	100mg
MM0380.16	Methyl Ester of Cetirizine Dihydrochloride	83881-48-5	100mg



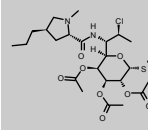
Chlorambucil

MM0821.08	Chlorambucil Methyl Ester	79481-83-7	100mg	
MM0821.09	Chlorambucil Ethyl Ester	64977-24-8	100mg	
MM0821.10	Chlorambucil Isopropyl Ester	77063-20-8	100mg	

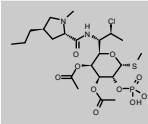
Ciprofloxacin Hydrochloride

MM0018.17	Ciprofloxacin Methyl Ester	107884-23-1	100mg	
MM0018.18	Ciprofloxacin Ethyl Ester	105404-65-7	100mg	
MM0018.19	Ciprofloxacin Isopropyl Ester	1427036-10-9	50mg	

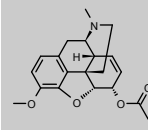
Clindamycin Hydrochloride

MM0259.07	Triacetylclindamycin	n/a	100mg	
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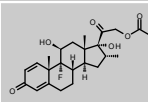
Clindamycin Phosphate

MM1520.07	Diacetylclindamycin Phosphate	n/a	100mg	
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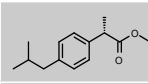
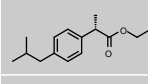
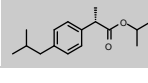
Codeine

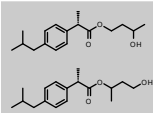
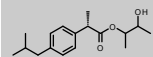
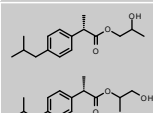
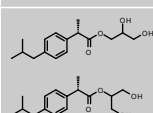
MM0004.06	Acetylcodeine	6703-27-1	CS 100mg	
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Dexamethasone

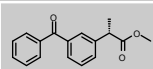
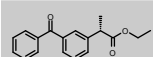
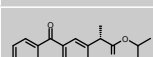
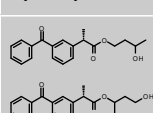
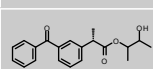
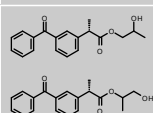
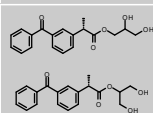
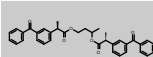
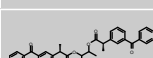
MM0445.00	Imp. G (EP): 9-Fluoro-11 β ,17-dihydroxy-16 α -methyl-3,20-dioxopregna-1,4-dien-21-yl Acetate (Dexamethasone Acetate)	1177-87-3	250mg	
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Dexibuprofen

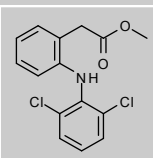
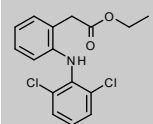
MM3534.01	Dexibuprofen Methyl Ester	81576-55-8	100mg	
MM3534.02	Dexibuprofen Ethyl Ester	272458-63-6	100mg	
MM3534.03	Dexibuprofen Isopropyl Ester	1114975-39-1	100mg	

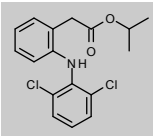
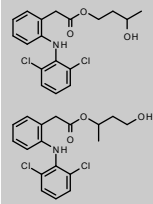
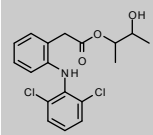
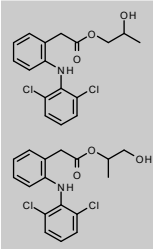
MM3534.04	Dexibuprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM3534.05	Dexibuprofen 2,3-Butylene Glycol Ester	n/a	100mg	
MM3534.06	Dexibuprofen 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM3534.07	Dexibuprofen 1,2,3-Propanetriol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	

Dexketoprofen Trometamol

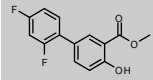
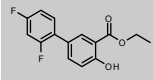
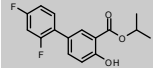
MM3535.01	Dexketoprofen Methyl Ester	81601-91-4	100mg	
MM3535.02	Dexketoprofen Ethyl Ester	136656-97-8	100mg	
MM3535.03	Dexketoprofen Isopropyl Ester	851775-73-0	100mg	
MM3535.04	Dexketoprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM3535.05	Dexketoprofen 2,3-Butylene Glycol Ester	n/a	100mg	
MM3535.06	Dexketoprofen 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM3535.07	Dexketoprofen 1,2,3-Propanetriol Ester (Mixture of Isomers)	n/a	100mg	
MM3535.09	3-[(2S)-2-(3-Benzoylphenyl)propanoyl]oxybutyl (2S)-2-(3-Benzoylphenyl)propanoate	n/a	50mg	
MM3535.10	[2-[(2S)-2-(3-Benzoylphenyl)propanoyl]oxy-1-methylpropyl] (2S)-2-(3-Benzoylphenyl)propanoate	n/a	50mg	
MM3535.11	2-[(2S)-2-(3-Benzoylphenyl)propanoyl]oxypropyl (2S)-2-(3-Benzoylphenyl)propanoate	n/a	50mg	

Diclofenac Sodium

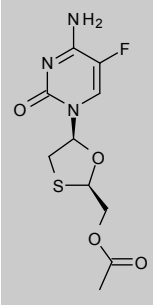
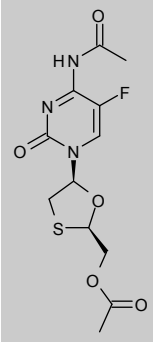
MM0006.10	Methyl 2-[2-[(2,6-Dichlorophenyl)amino]-phenyl]acetate (Methyl Ester of Diclofenac)	15307-78-5	100mg	
MM0006.11	Ethyl 2-[2-[(2,6-Dichlorophenyl)amino]-phenyl]acetate (Ethyl Ester of Diclofenac)	15307-77-4	100mg	

MM0181.06	Isopropyl 2-[2-[(2,6-Dichlorophenyl)amino]-phenyl]acetate (Isopropyl Ester of Diclofenac)	66370-79-4	100mg	
MM0006.37	Diclofenac Butylene Glycol Ester (Mixture of Isomers)	n/a	50mg	
MM0006.38	Diclofenac 2,3-Butylene Glycol Ester	95093-57-5	100mg	
MM0006.39	Diclofenac 1,2-Propylene Glycol Ester (Mixture of Isomers)	n/a	100mg	

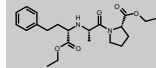
Diflunisal

MM3050.01	Diflunisal Methyl Ester	55544-00-8	100mg	
MM3050.02	Diflunisal Ethyl Ester	126093-86-5	100mg	
MM3050.03	Diflunisal Isopropyl Ester	1381777-24-7	100mg	

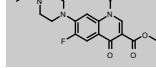
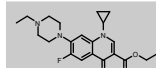
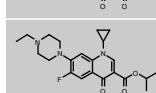
Emtricitabine

MM1325.05	O-Acetylemtricitabine	145032-08-2	100mg	
MM1325.06	N,O-Diacetylemtricitabine	n/a	100mg	

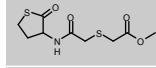
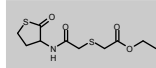
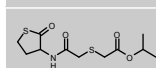
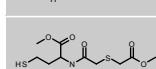
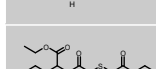
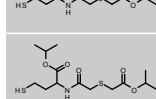
Enalapril Maleate

MM0010.17	Enalapril Ethyl Ester (N-[(1S)-1-(Ethoxycarbonyl)-3-phenylpropyl]-L-alanyl-L-proline Ethyl Ester)	87420-38-0	100mg	
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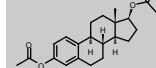
Enrofloxacin

MM0395.11	Enrofloxacin Methyl Ester	107884-20-8	100mg	
MM0395.12	Enrofloxacin Ethyl Ester	107884-19-5	100mg	
MM0395.13	Enrofloxacin Isopropyl Ester	n/a	100mg	

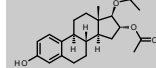
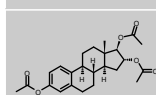
Erdosteine

MM0544.02	Erdosteine Methyl Ester	1667709-77-4	100mg	
MM0544.03	Erdosteine Ethyl Ester	84611-37-0	100mg	
MM0544.04	Erdosteine Isopropyl Ester	n/a	100mg	
MM0544.05	Methyl 2-[[2-(2-Methoxy-2-oxoethyl)sulfanylacetyl]amino]-4-sulfanylbutanoate	n/a	100mg	
MM0544.06	Ethyl 2-[[2-(2-Ethoxy-2-oxo-ethyl)sulfanylacetyl]amino]-4-sulfanylbutanoate	n/a	100mg	
MM0544.07	Isopropyl 2-[[2-(2-Isopropoxy-2-oxo-ethyl)sulfanylacetyl]amino]-4-sulfanylbutanoate	n/a	100mg	

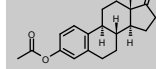
Estradiol Hemihydrate

MM0300.12	Estradiol Diacetate	3434-88-6	100mg	
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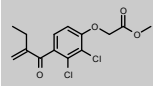
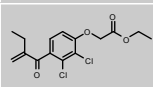
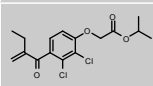
Estriol

MM0130.14	Estriol 16,17-Diacetate	805-26-5	100mg	
MM0130.15	Estriol Triacetate	2284-32-4	100mg	

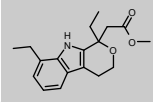
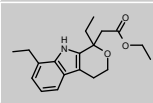
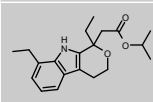
Estrone

MM0473.01	Estrone 3-Acetate	901-93-9	100mg	
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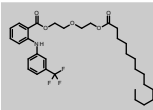
Etacrynic Acid

MM1207.04	Etacrynic Acid Methyl Ester	6463-21-4	100mg	
MM1207.05	Etacrynic Acid Ethyl Ester	23870-41-9	100mg	
MM1207.06	Etacrynic Acid Isopropyl Ester	n/a	100mg	

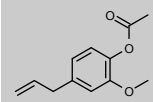
Etodolac

MM0911.11	Imp. K (EP): Methyl 2-[(1RS)-1,8-Diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetate (Etodolac Methyl Ester)	122188-02-7	100mg	
MM0911.13	Etodolac Ethyl Ester	200880-23-5	100mg	
MM0911.14	Etodolac Isopropyl Ester	n/a	100mg	

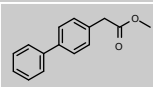
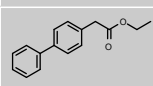
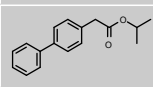
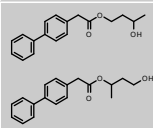
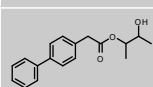
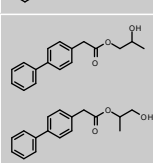
Etofenamate

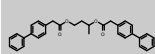
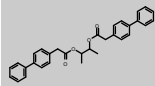
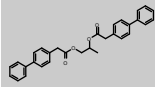
MM0105.08	Etofenamate Myristate	81427-99-8	100mg	
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Eugenol

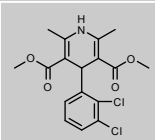
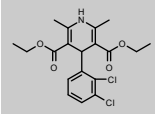
MM3464.01	Imp. I (EP): 2-Methoxy-4-(prop-2-enyl)phenyl Acetate (Acetyleneugenol)	93-28-7	100mg	
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Felbinac

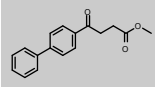
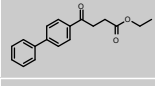
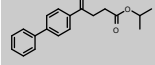
MM3501.02	Felbinac Methyl Ester	59793-29-2	100mg	
MM3501.03	Felbinac Ethyl Ester	14062-23-8	100mg	
MM3501.04	Felbinac Isopropyl Ester	1286423-88-8	100mg	
MM3501.05	Felbinac 1,3-Butylene Glycol Esters (Mixture of Isomers)	n/a	100mg	
MM3501.06	Felbinac 2,3-Butylene Glycol Ester	n/a	100mg	
MM3501.07	Felbinac 1,2-Propylene Glycol Esters (Mixture of Isomers)	n/a	100mg	

MM3501.09	3-[2-(4-Phenylphenyl)acetyl]oxybutyl 2-(4-Phenylphenyl)acetate	n/a	50mg	
MM3501.10	[1-Methyl-2-[2-(4-phenylphenyl)acetyl]oxypropyl] 2-(4-Phenylphenyl)acetate	n/a	50mg	
MM3501.11	2-[2-(4-Phenylphenyl)acetyl]oxypropyl 2-(4-Phenylphenyl)acetate	n/a	50mg	

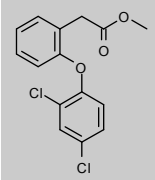
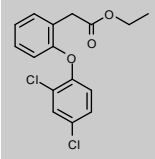
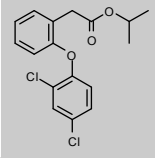
Felodipine

MM0139.02	Imp. B (EP): Dimethyl 4-(2,3-Dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate	91189-59-2	100mg	
MM0139.03	Imp. C (EP): Diethyl 4-(2,3-Dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate	79925-38-5	100mg	

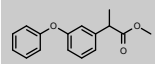
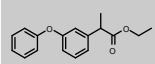
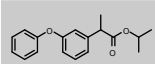
Fenbufen

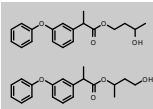
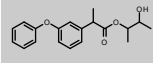
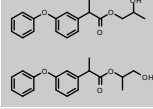
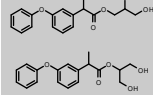
MM0918.06	Fenbufen Methyl Ester	54011-27-7	100mg	
MM0918.07	Fenbufen Ethyl Ester	1230-54-2	100mg	
MM0918.08	Fenbufen Isopropyl Ester	n/a	100mg	

Fenclofenac

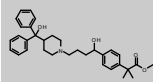
MM3075.01	Fenclofenac Methyl Ester	81585-78-6	100mg	
MM3075.02	Fenclofenac Ethyl Ester	86308-84-1	100mg	
MM3075.03	Fenclofenac Isopropyl Ester	n/a	100mg	

Fenoprofen Calcium

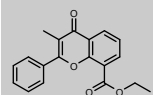
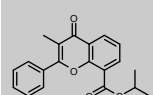
MM0790.02	Fenoprofen Methyl Ester	66202-87-7	100mg	
MM0790.03	Fenoprofen Ethyl Ester	32929-74-1	100mg	
MM0790.04	Fenoprofen Isopropyl Ester	120824-55-7	100mg	

MM0790.05	Fenoprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0790.06	Fenoprofen 2,3-Butylene Glycol Ester	n/a	100mg	
MM0790.07	Fenoprofen 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0790.08	Fenoprofen 1,2,3-Propanetriol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	

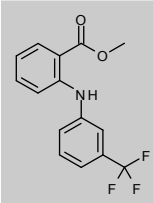
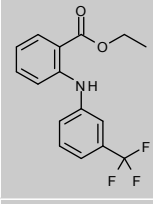
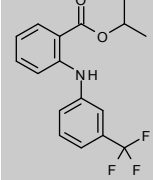
Fexofenadine Hydrochloride

MM0507.04	Imp. D (EP): Methyl 2-[4-[(1RS)-1-Hydroxy-4-[4-(hydroxydiphenylmethyl)piperidin-1-yl]-butyl]phenyl]-2-methylpropanoate (Fexofenadine Methyl Ester)	154825-96-4	100mg	
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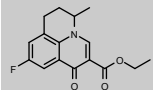
Flavoxate Hydrochloride

MM0156.02	Imp. B (EP): Ethyl 3-Methyl-4-oxo-2-phenyl-4H-1-benzopyran-8-carboxylate (3-Methylflavone-8-carboxylic Acid Ethyl Ester)	35888-94-9	100mg	
MM0156.05	Imp. C (EP): 1-Methylethyl 3-Methyl-4-oxo-2-phenyl-4H-1-benzopyran-8-carboxylate (3-Methylflavone-8-carboxylic Acid Isopropyl Ester)	1286165-14-7	50mg	

Flufenamic Acid

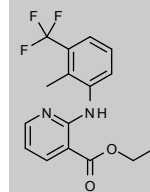
MM0410.01	Flufenamic Acid Methyl Ester	2765-91-5	100mg	
MM0410.02	Flufenamic Acid Ethyl Ester	2766-16-7	100mg	
MM0410.03	Flufenamic Acid Isopropyl Ester	68749-59-7	100mg	

Flumequine

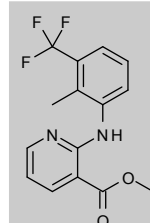
MM0842.02	Imp. B (EP): Ethyl (RS)-9-Fluoro-5-methyl-1-oxo-6,7-dihydro-1H,5H-benzo[i,j]quinolizine-2-carboxylate (Flumequine Ethyl Ester)	42835-47-2	100mg	
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Flunixin Meglumine

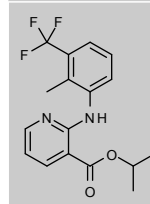
[MM0915.04](#) **Imp. D** (EP): Ethyl 2-[[2-Methyl-3-(trifluoromethyl)phenyl]amino]pyridine-3-carboxylate (Flunixin Ethyl Ester) 54396-42-8 100mg



[MM0915.05](#) Flunixin Methyl Ester 75369-63-0 100mg

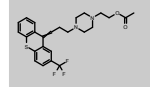


[MM0915.06](#) Flunixin Isopropyl Ester n/a 100mg



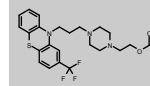
Flupentixol Dihydrochloride

[MM0223.16](#) **Imp. E** (EP) as Hydrochloride: 2-[4-[3-[(EZ)-2-(Trifluoromethyl)-9H-thioxanthen-9-ylidene]propyl]piperazin-1-yl]ethyl Acetate Hydrochloride (O-Acetylflupentixol Hydrochloride) n/a 100mg



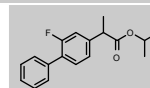
Fluphenazine Dihydrochloride

[MM0114.13](#) O-Acetylfluphenazine 2021-89-8 100mg

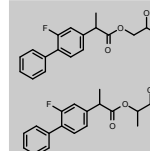


Flurbiprofen

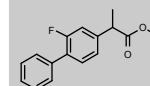
[MM0727.06](#) Flurbiprofen Isopropyl Ester 252846-89-2 100mg



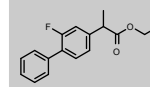
[MM0727.07](#) Flurbiprofen 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers) n/a 100mg



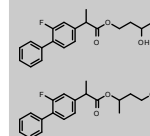
[MM0727.09](#) Flurbiprofen Methyl Ester 66202-86-6 100mg



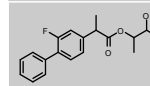
[MM0727.10](#) Flurbiprofen Ethyl Ester 64858-90-8 100mg



[MM0727.11](#) Flurbiprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers) n/a 100mg



[MM0727.12](#) Flurbiprofen 2,3-Butylene Glycol Ester n/a 100mg

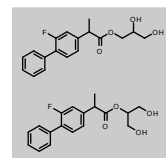


[MM0727.13](#)

Flurbiprofen 1,2,3-Propanetriol Esters (Mixture of Regio- and Stereoisomers)

n/a

100mg



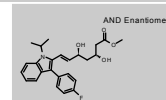
Fluvastatin Sodium

[MM0676.09](#)

Fluvastatin Methyl Ester

93957-53-0

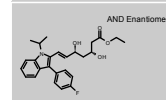
100mg


[MM0676.10](#)

Fluvastatin Ethyl Ester

615263-37-1

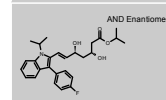
100mg


[MM0676.11](#)

Fluvastatin Isopropyl Ester

615263-39-3

100mg



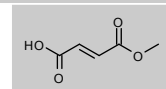
Fumaric Acid

[MM0352.03](#)

Monomethyl Fumarate

2756-87-8

100mg

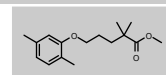


Gemfibrozil

[MM0641.06](#)
Imp. I (EP): Methyl 5-(2,5-dimethylphenoxy)-2,2-dimethylpentanoate (Gemfibrozil Methyl Ester)

149105-25-9

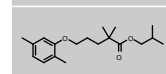
100mg


[MM0641.03](#)

Gemfibrozil Isobutyl Ester

149105-26-0

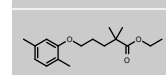
100mg


[MM0641.14](#)

Gemfibrozil Ethyl Ester

63258-18-4

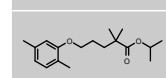
100mg


[MM0641.15](#)

Gemfibrozil Isopropyl Ester

154021-24-6

100mg



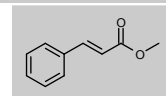
Harpagoside

[MM0370.01](#)

Methyl trans-Cinnamate

1754-62-7

100mg

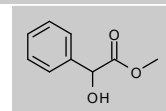


Homatropine Methylbromide

[MM0792.06](#)
Imp. F (EP): Methyl (2RS)-2-Hydroxy-2-phenylacetate (Methyl Mandelate)

4358-87-6

100mg



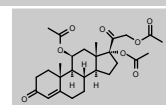
Hydrocortisone Acetate

[MM0187.06](#)

Hydrocortisone 11,17,21-Triacetate

3517-51-9

10mg



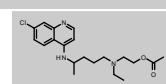
Hydroxychloroquine Sulphate

[MM0764.04](#)

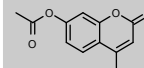
O-Acetylhydroxychloroquine

47493-14-1

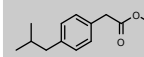
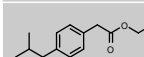
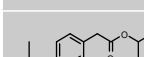
100mg



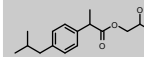
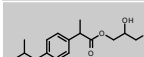
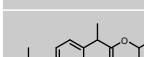
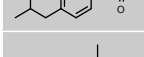
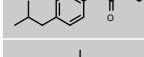
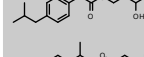
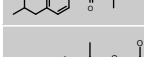
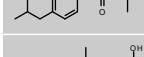
Hymecromone

MM0294.04	Hymecromone Acetate	2747-05-9	100mg	
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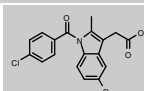
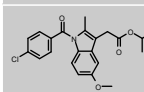
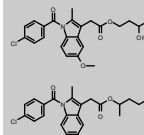
Ibufenac

MM1872.01	Ibufenac Methyl Ester	61566-33-4	100mg	
MM1872.02	Ibufenac Ethyl Ester	15649-02-2	100mg	
MM1872.03	Ibufenac Isopropyl Ester	n/a	100mg	

Ibuprofen

MM0002.15	2-Hydroxypropyl 2-(4-Isobutylphenyl)-propanoate	95093-58-6	100mg	
MM0002.17	2,3-Dihydroxypropyl 2-(4-Isobutylphenyl)propanoate	64622-21-5	50mg	
MM0002.23	Isopropyl 2-(4-Isobutylphenyl)propanoate	64622-17-9	100mg	
MM0002.53	Ibuprofen Methyl Ester	61566-34-5	100mg	
MM0002.56	Ibuprofen Ethyl Ester	41283-72-1	100mg	
MM0002.62	Ibuprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0002.63	Ibuprofen 2,3-Butylene Glycol Ester	95093-59-7	100mg	
MM0002.64	Ibuprofen 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0002.65	Ibuprofen 1,2,3-Propanetriol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	

Indometacin

MM0584.08	Imp. H (EP): Methyl [1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-1H-indol-3-yl]acetate (Indomethacin Methyl Ester)	1601-18-9	100mg	
MM0584.11	Indomethacin Isopropyl Ester	72616-25-2	100mg	
MM0584.12	Indometacin 1,3-Butylene Glycol Esters (Mixture of Isomers)	n/a	100mg	

Products — Esterification

MM0584.13	Indometacin 2,3-Butylene Glycol Ester	87293-45-6	100mg	
MM0584.14	Indometacin 1,2-Propylene Glycol Esters (Mixture of Isomers)	n/a	100mg	
MM0584.15	Indometacin 1,2,3-Propanetriol Esters (Mixture of Isomers)	n/a	100mg	

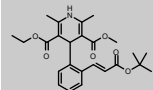
Ketoprofen

MM0001.19	Ethyl 2-(3-Benzoylphenyl)propionate (Ketoprofen Ethyl Ester)	60658-04-0	100mg	
MM0001.21	Isopropyl 2-(3-Benzoylphenyl)propionate	220662-26-0	100mg	
MM0001.28	Ketoprofen Propylene Glycol Ester (Mixture of Isomers)	n/a	50mg	
MM0001.32	Methyl 2-(3-Benzoylphenyl)propionate (Ketoprofen Methyl Ester)	47087-07-0	100mg	
MM0001.33	2-Ethylhexyl 2-(3-Benzoylphenyl)propionate (Ketoprofen 2-Ethylhexyl Ester)	n/a	100mg	
MM0001.34	Ketoprofen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0001.35	Ketoprofen 2,3-Butylene Glycol Ester	94561-67-8	100mg	
MM0001.36	Ketoprofen 1,2,3-Propanetriol Esters (Mixture of Regio- and Stereoisomers)	n/a	50mg	

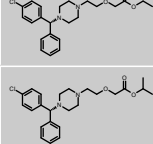
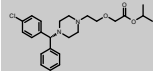
Ketorolac Trometamol

MM0851.10	Imp. H (EP): Methyl (1RS)-5-Benzoyl-2,3-dihydro-1H-pyrrolizine-1-carboxylate (Ketorolac Methyl Ester)	80965-09-9	100mg	
MM0851.11	Imp. J (EP): Ethyl (1RS)-5-Benzoyl-2,3-dihydro-1H-pyrrolizine-1-carboxylate (Ketorolac Ethyl Ester)	108061-03-6	100mg	
MM0851.14	Ketorolac Isopropyl Ester	66635-74-3	100mg	
MM0851.15	Ketorolac 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0851.16	Ketorolac 2,3-Butylene Glycol Ester	n/a	100mg	
MM0851.17	Ketorolac 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	

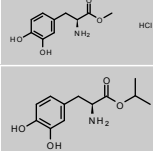
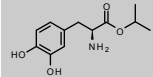
Lacidipine

MM0407.01	Imp. A (BP): Ethyl Methyl (<i>E</i>)-4-{2-[2-(<i>tert</i> -Butoxycarbonyl)vinyl]phenyl}-1,4-dihydro-2,6-dimethylpyridine-3,5-dicarboxylate	103890-81-9	100mg	
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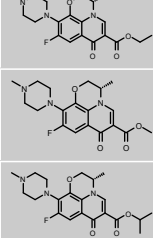
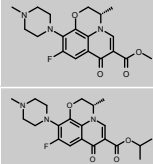
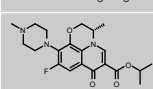
Levocetirizine Dihydrochloride

MM1035.04	Levocetirizine Ethyl Ester	1116338-10-3	100mg	
MM1035.05	Levocetirizine Isopropyl Ester	n/a	100mg	

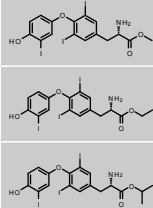
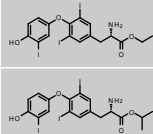
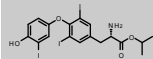
Levodopa

MM0262.18	Levodopa Methyl Ester Hydrochloride	1421-65-4	100mg	
MM0262.20	Levodopa Isopropyl Ester	110301-07-0	100mg	

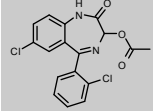
Levofloxacin

MM0846.05	Levofloxacin Ethyl Ester	177472-30-9	100mg	
MM0846.06	Levofloxacin Methyl Ester	862690-19-5	100mg	
MM0846.07	Levofloxacin Isopropyl Ester	n/a	100mg	

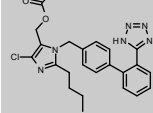
Liothyronine Sodium

MM0626.09	Liothyronine Methyl Ester	54914-53-3	100mg	
MM0626.10	Liothyronine Ethyl Ester	3005-97-8	100mg	
MM0626.11	Liothyronine Isopropyl Ester	n/a	50mg	

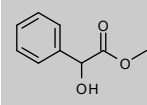
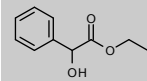
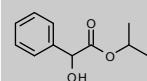
Lorazepam

MM0071.07	Imp. B (EP): (3 <i>RS</i>)-7-Chloro-5-(2-chlorophenyl)-2-oxo-2,3-dihydro-1 <i>H</i> -1,4-benzodiazepin-3-yl Acetate (Lorazepam Acetate)	2848-96-6	CS 100mg	
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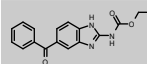
Losartan Potassium

MM0168.18	Imp. J (EP): [2-Butyl-4-chloro-1-[[2'-(1 <i>H</i> -tetrazol-5-yl)biphenyl-4-yl]methyl]-1 <i>H</i> -imidazol-5-yl]methyl Acetate	1006062-27-6	100mg	
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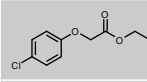
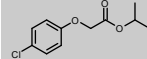
Mandelic Acid

MM0792.06	Methyl Mandelate	4358-87-6	100mg	
MM3498.01	Ethyl Mandelate	774-40-3	100mg	
MM1376.05	Isopropyl Mandelate	4118-51-8	100mg	

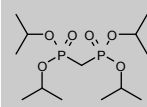
Mebendazole

MM0882.05	Imp. E (EP): Ethyl (5-Benzoyl-1 <i>H</i> -benzimidazol-2-yl)carbamate	31430-19-0	50mg	
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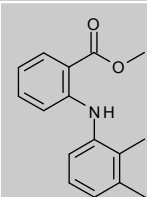
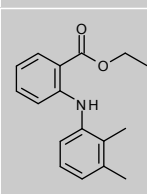
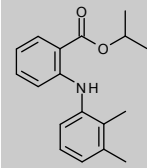
Meclofenoxate Hydrochloride

MM0044.05	(4-Chlorophenoxy)acetic Acid Ethyl Ester	14426-42-7	100mg	
MM0044.06	(4-Chlorophenoxy)acetic Acid Isopropyl Ester	41944-93-8	100mg	

Medronic Acid

MM3503.02	Imp. B (EP): Tetrakis(1-methylethyl) Methylenediphosphonate	1660-95-3	100mg	
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Mefenamic Acid

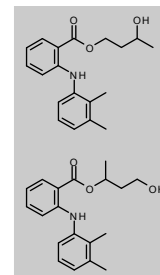
MM0327.07	Mefenamic Acid Methyl Ester	1222-42-0	100mg	
MM0327.08	Mefenamic Acid Ethyl Ester	1226-33-1	100mg	
MM0327.09	Mefenamic Acid Isopropyl Ester	n/a	100mg	

[MM0327.10](#)

Mefenamic Acid 1,3-Butylene Glycol Esters (Mixture of Isomers)

n/a

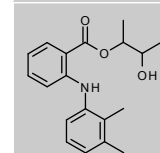
100mg


[MM0327.11](#)

Mefenamic Acid 2,3-Butylene Glycol Ester

95093-55-3

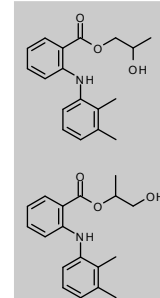
100mg


[MM0327.12](#)

Mefenamic Acid 1,2-Propylene Glycol Esters (Mixture of Isomers)

n/a

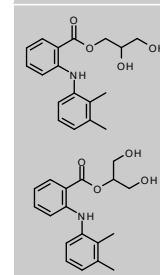
100mg


[MM0327.13](#)

Mefenamic Acid 1,2,3-Propanetriol Esters (Mixture of Isomers)

n/a

100mg



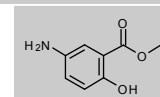
Mesalazine

[MM0217.25](#)

Mesalazine Methyl Ester

42753-75-3

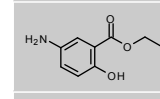
100mg


[MM0217.26](#)

Mesalazine Ethyl Ester

62773-65-3

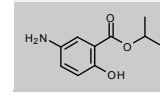
100mg


[MM0217.27](#)

Mesalazine Isopropyl Ester

64240-87-5

50mg



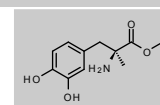
Methyldopa

[MM1501.02](#)

Methyldopa Methyl Ester

18181-08-3

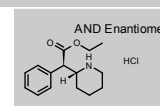
100mg



Methylphenidate Hydrochloride

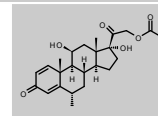
[MM1031.09](#)
Imp. E (EP) as Hydrochloride: Ethyl (2RS)-Phenyl[(2RS)-piperidin-2-yl]acetate Hydrochloride (Ethylphenidate Hydrochloride)

19716-79-1

CS 100mg


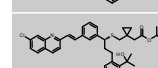
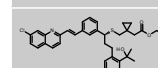
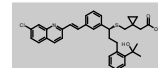
Methylprednisolone

MM0191.00	Imp. J (Pharmeuropa): 11 β , 17-Dihydroxy-6 α -methyl-3,20-dioxopregna-1,4-dien-21-yl Acetate (Methylprednisolone Acetate)	53-36-1	100mg
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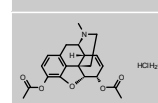
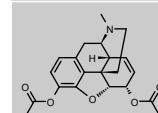
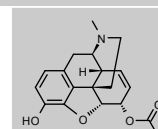
Montelukast Sodium

MM0698.16	Montelukast Methyl Ester	855473-51-7	100mg
MM0698.17	Montelukast Ethyl Ester	1044705-96-5	100mg
MM0698.18	Montelukast Isopropyl Ester	n/a	100mg



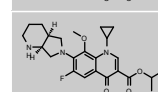
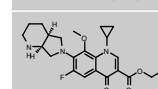
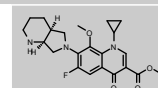
Morphine Hydrochloride

MM0037.14	6-Acetylmorphine	2784-73-8	CS 100mg
MM0037.17	Heroin (Diacetylmorphine)	561-27-3	CS 100mg
MM0037.20	Heroin Hydrochloride Monohydrate (Diacetylmorphine Hydrochloride Monohydrate)	5893-91-4	CS 50mg



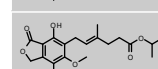
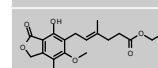
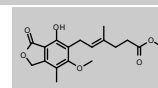
Moxifloxacin Hydrochloride

MM0885.09	Moxifloxacin Methyl Ester	721970-35-0	100mg
MM0885.10	Moxifloxacin Ethyl Ester	1403836-23-6	100mg
MM0885.11	Moxifloxacin Isopropyl Ester	1585176-91-5	100mg



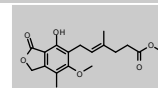
Mycophenolate Mofetil

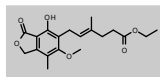
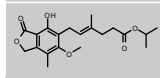
MM1001.05	Imp. E (EP): Methyl (4E)-6-(4-Hydroxy-6-methoxy-7-methyl-3-oxo-1,3-dihydroiso-benzofuran-5-yl)-4-methylhex-4-enoate	31858-66-9	100mg
MM1001.09	Ethyl Mycophenolate	32483-51-5	100mg
MM1001.10	Isopropyl Mycophenolate	40336-80-9	100mg



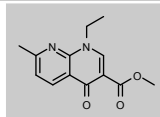
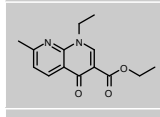
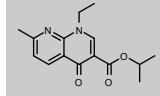
Mycophenolate Sodium

MM1001.05	Methyl (4E)-6-(4-Hydroxy-6-methoxy-7-methyl-3-oxo-1,3-dihydroiso-benzofuran-5-yl)-4-methylhex-4-enoate (Methyl Mycophenolate)	31858-66-9	100mg
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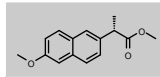
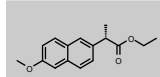
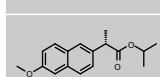
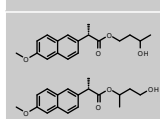
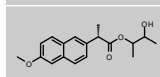
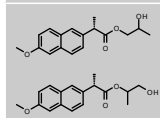
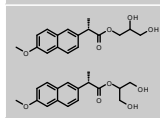


MM1001.09	Ethyl Mycophenolate	32483-51-5	100mg	
MM1001.10	Isopropyl Mycophenolate	40336-80-9	100mg	

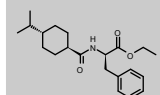
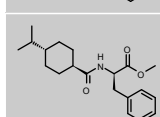
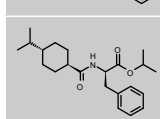
Nalidixic Acid

MM3144.01	Nalidixic Acid Methyl Ester	63475-29-6	100mg	
MM3144.02	Nalidixic Acid Ethyl Ester	33331-59-8	100mg	
MM3144.03	Nalidixic Acid Isopropyl Ester	n/a	100mg	

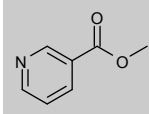
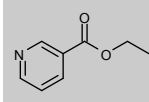
Naproxen

MM0152.02	Imp. E (EP): Methyl (2S)-2-(6-Methoxynaphthalen-2-yl)propanoate (Naproxen Methyl Ester)	26159-35-3	100mg	
MM0152.12	Imp. F (EP): Ethyl (2S)-2-(6-Methoxynaphthalen-2-yl)propanoate (Naproxen Ethyl Ester)	31220-35-6	100mg	
MM0152.20	Naproxen Isopropyl Ester	156967-24-7	100mg	
MM0152.21	Naproxen 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0152.22	Naproxen 2,3-Butylene Glycol Ester	n/a	100mg	
MM0152.23	Naproxen 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	
MM0152.24	Naproxen 1,2,3-Propanetriol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg	

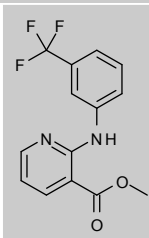
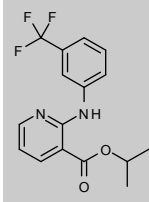
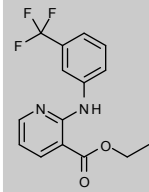
Nateglinide

MM0847.06	Imp. G (EP): Ethyl <i>N</i> -[[<i>trans</i> -4-(1-Methylethyl)cyclohexyl]carbonyl]-D-phenylalaninate (Nateglinide Ethyl Ester)	187728-85-4	50mg	
MM0847.10	Nateglinide Methyl Ester	105746-47-2	100mg	
MM0847.11	Nateglinide Isopropyl Ester	n/a	100mg	

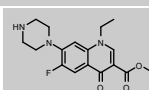
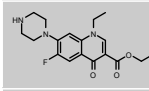
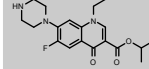
Nicotinic Acid

MM0549.00	Methyl Nicotinate	93-60-7	500mg	
MM1756.00	Ethyl Nicotinate	614-18-6	250mg	

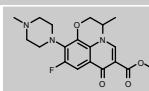
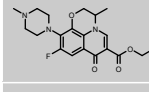
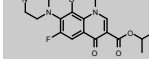
Niflumic Acid

MM0850.01	Imp. F (EP): Methyl 2-[[3-(Trifluoromethyl)-phenyl]amino]pyridine-3-carboxylate (Niflumic Acid Methyl Ester)	59361-45-4	100mg	
MM0850.02	Niflumic Acid Isopropyl Ester	n/a	100mg	
MM0850.09	Niflumic Acid Ethyl Ester	51703-19-6	100mg	

Norfloxacin

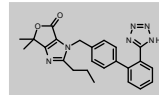
MM0350.10	Norfloxacin Methyl Ester	75001-83-1	100mg	
MM0350.11	Norfloxacin Ethyl Ester	74011-47-5	100mg	
MM0350.12	Norfloxacin Isopropyl Ester	1415841-37-0	100mg	

Ofloxacin

MM0228.11	Ofloxacin Methyl Ester	108224-82-4	100mg	
MM0228.12	Ofloxacin Ethyl Ester	107884-32-2	100mg	
MM0228.13	Ofloxacin Isopropyl Ester	126911-77-1	50mg	

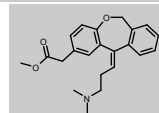
Olmesartan Medoxomil

[MM1317.02](#) **Imp. B** (EP): 6,6-Dimethyl-2-propyl-3-[[2'-(1*H*-tetrazol-5-yl)biphenyl-4-yl]methyl]-3,6-dihydro-4*H*-furo[3,4-*d*]imidazol-4-one 849206-43-5 100mg

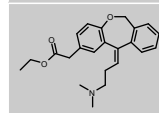


Olopatadine Hydrochloride

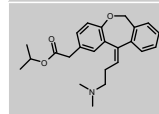
[MM1261.06](#) Olopatadine Methyl Ester 113806-01-2 100mg



[MM1261.07](#) Olopatadine Ethyl Ester 113806-03-4 100mg

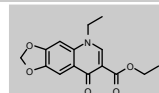


[MM1261.08](#) Olopatadine Isopropyl Ester 1206456-44-1 100mg

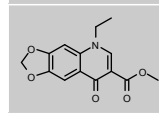


Oxolinic Acid

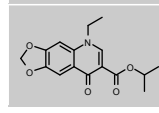
[MM0898.02](#) **Imp. B** (EP): Ethyl 5-Ethyl-8-oxo-5,8-dihydro-1,3-dioxolo[4,5-*g*]quinoline-7-carboxylate (Oxolinic Acid Ethyl Ester) 16172-03-5 100mg



[MM0898.04](#) Oxolinic Acid Methyl Ester 50332-56-4 100mg

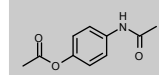


[MM0898.05](#) Oxolinic Acid Isopropyl Ester n/a 100mg



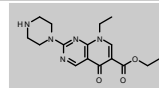
Paracetamol

[MM0042.04](#) **Imp. H** (EP): 4-(Acetylamino)phenyl Acetate (N,O-Diacetyl-4-aminophenol) 2623-33-8 100mg

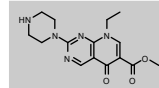


Pipemidic Acid Trihydrate

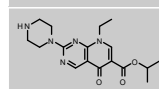
[MM0401.01](#) **Imp. E** (EP): Ethyl 8-Ethyl-5-oxo-2-(piperazin-1-yl)-5,8-dihydropyrido[2,3-*d*]pyrimidine-6-carboxylate (Pipemidic Acid Ethyl Ester) 51940-43-3 100mg



[MM0401.02](#) Pipemidic Acid Methyl Ester 80161-83-7 100mg

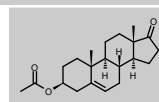


[MM0401.03](#) Pipemidic Acid Isopropyl Ester n/a 100mg



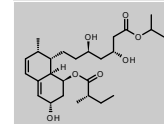
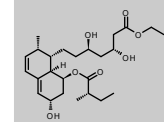
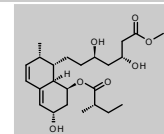
Prasterone

[MM0651.05](#) Prasterone Acetate 853-23-6 100mg



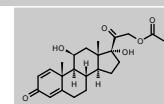
Pravastatin Sodium

MM0503.09	Pravastatin Methyl Ester	81131-72-8	100mg
MM0503.10	Pravastatin Ethyl Ester	n/a	100mg
MM0503.13	Pravastatin Isopropyl Ester	n/a	100mg



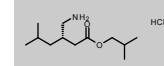
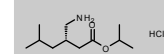
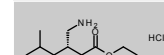
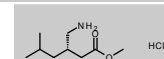
Prednisolone

MM0194.00	Imp. C (EP): 11 β ,17-Dihydroxy-3,20-dioxo-pregna-1,4-dien-21-yl Acetate (Prednisolone Acetate)	52-21-1	500mg
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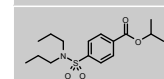
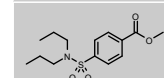
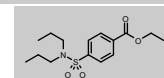
Pregabalin

MM1376.06	Pregabalin Methyl Ester Hydrochloride	714230-22-5	100mg
MM1376.14	Pregabalin Ethyl Ester Hydrochloride	1909294-27-4	100mg
MM1376.15	Pregabalin Isopropyl Ester Hydrochloride	1239692-16-0	100mg
MM1376.16	Pregabalin Isobutyl Ester Hydrochloride	1239692-15-9	100mg



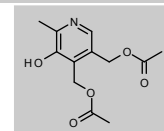
Probenecid

MM0657.01	Imp. D (EP): Ethyl 4-(Dipropylsulfamoyl)benzoate (Probenecid Ethyl Ester)	70190-76-0	100mg
MM0657.02	Probenecid Methyl Ester	53212-75-2	100mg
MM0657.03	Probenecid Isopropyl Ester	70190-78-2	100mg



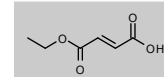
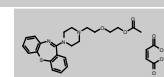
Pyridoxine Hydrochloride

MM0021.03	Pyridoxine Diacetate	26280-83-1	100mg
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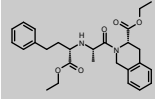


Quetiapine Fumarate

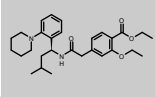
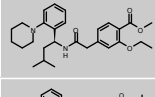
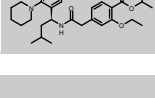
MM1130.15	Imp. A (EP) as Maleate: 2-[2-[4-(Dibenzo[b,f][1,4]thiazepin-11-yl)piperazin-1-yl]ethoxy]ethyl Acetate Maleate	n/a	50mg
MM1130.18	Monoethyl Fumarate	2459-05-4	250mg



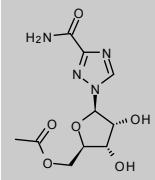
Quinapril Hydrochloride

MM0628.16	Quinapril Ethyl Ester ((3S)-2-[(2S)-2-[[[(1S)-1-(Ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-3-isoquinolinecarboxylic Acid Ethyl Ester)	103733-35-3	100mg	
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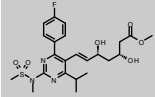
Repaglinide

MM0944.05	Imp. D (EP): Ethyl 2-Ethoxy-4-[2-[[[(1S)-3-methyl-1-[2-(piperidin-1-yl)phenyl]butyl]amino]-2-oxoethyl]benzoate (Repaglinide Ethyl Ester)	147770-06-7	100mg	
MM0944.07	Repaglinide Methyl Ester	800365-89-3	100mg	
MM0944.08	Repaglinide Isopropyl Ester	n/a	100mg	

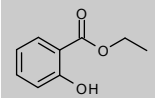
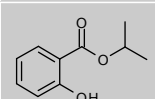
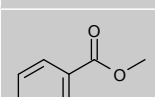
Ribavirin

MM0542.06	Imp. F (EP): 1-(5-O-Acetyl-β-D-ribofuranosyl)-1H-1,2,4-triazole-3-carboxamide (5'-O-Acetylrivavirin)	58151-87-4	100mg	
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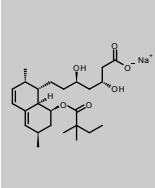
Rosuvastatin Calcium

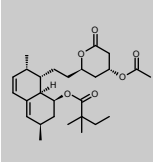
MM0936.06	Rosuvastatin Methyl Ester	147118-40-9	100mg	
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Salicylic Acid

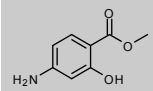
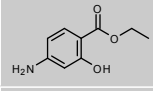
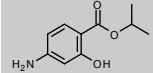
MM0045.16	Ethyl Salicylate	118-61-6	100mg	
MM0045.17	Isopropyl Salicylate	607-85-2	100mg	
MM1063.00	Methyl Salicylate	119-36-8	250mg	

Simvastatin

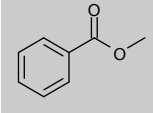
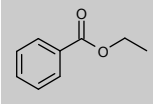
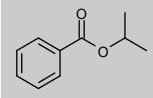
MM0158.01	Imp. A (EP) as Sodium Salt: (3R,5R)-7-[(1S,2S,6R,8S,8aR)-8-[(2,2-Dimethylbutanoyl)oxy]-2,6-dimethyl-1,2,6,7,8,8a-hexahydronaphthalen-1-yl]-3,5-dihydroxyheptanoic Acid Sodium Salt (Tenvastatin Sodium Salt; Simvastatin Hydroxy Acid Sodium Salt)	101314-97-0	100mg	
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MM0158.02	Imp. B (EP): (1S,3R,7S,8S,8aR)-8-[2-[(2R,4R)-4-(Acetyloxy)-6-oxotetrahydro-2H-pyran-2-yl]ethyl]-3,7-dimethyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl 2,2-Dimethylbutanoate (Simvastatin Acetate Ester)	145576-25-6	100mg	
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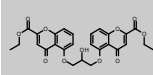
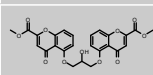
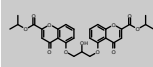
Sodium Aminosalicylate Dihydrate

MM0073.09	Methyl 4-Amino-2-hydroxybenzoate (Methyl Aminosalicylate)	4136-97-4	100mg	
MM1645.02	Ethyl 4-Amino-2-hydroxybenzoate (Ethyl Aminosalicylate)	6059-17-2	100mg	
MM1645.03	Isopropyl 4-Amino-2-hydroxybenzoate (Isopropyl Aminosalicylate)	6018-21-9	25mg	

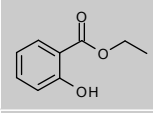
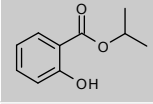
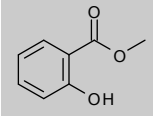
Sodium Benzoate

MM0814.08	Methyl Benzoate	93-58-3	100mg	
MM0730.01	Ethyl Benzoate	93-89-0	100mg	
MM0730.02	Isopropyl Benzoate	939-48-0	100mg	

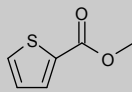
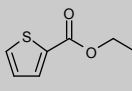
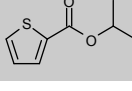
Sodium Cromoglicate

MM0039.04	Imp. B (EP): Diethyl 5,5'-[(2-hydroxypropane-1,3-diyl)dioxy]bis(4-oxo-4H-1-benzopyran-2-carboxylate) (Ethyl Cromoglicate)	16150-45-1	100mg	
MM0039.05	Dimethyl Cromoglicate	51471-26-2	100mg	
MM0039.06	Diisopropyl Cromoglicate	n/a	50mg	

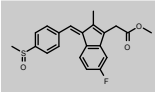
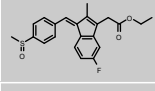
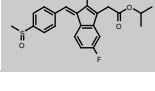
Sodium Salicylate

MM0045.16	Ethyl Salicylate	118-61-6	100mg	
MM0045.17	Isopropyl Salicylate	607-85-2	100mg	
MM1063.00	Methyl Salicylate	119-36-8	250mg	

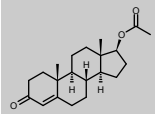
Sodium Thiophene-2-carboxylate

MM1081.01	Methyl Thiophene-2-carboxylate	5380-42-7	100mg	
MM1081.02	Ethyl Thiophene-2-carboxylate	2810-04-0	100mg	
MM1081.03	Isopropyl Thiophene-2-carboxylate	111160-47-5	100mg	

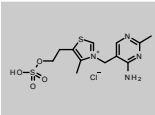
Sulindac

MM0624.04	Sulindac Methyl Ester	134439-52-4	100mg	
MM0624.05	Sulindac Ethyl Ester	68299-97-8	100mg	
MM0624.06	Sulindac Isopropyl Ester	n/a	100mg	

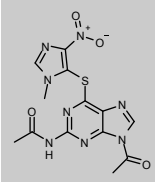
Testosterone

MM0323.05	Imp. E (EP): 3-Oxoandrost-4-en-17 β -yl Acetate (Testosterone Acetate)	1045-69-8	100mg	
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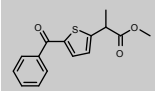
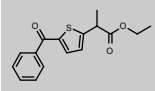
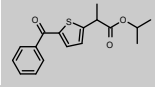
Thiamine Hydrochloride

MM0049.07	Imp. A (EP) as Chloride: 3-[(4-Amino-2-methylpyrimidin-5-yl)methyl]-4-methyl-5-[2-(sulfonatoxy)ethyl]thiazolium Chloride (Thiamine Chloride Sulfate Ester)	15743-04-1	100mg	
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Thiamiprine

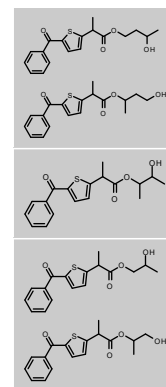
MM1292.07	N,9-Diacetylthiamiprine (2-Acetylamino-9-acetyl-6-[(1-methyl-4-nitroimidazol-5-yl)thio]purine)	n/a	100mg	
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Tiaprofenic Acid

MM3322.01	Tiaprofenic Acid Methyl Ester	32990-41-3	100mg	
MM3322.02	Tiaprofenic Acid Ethyl Ester	127266-13-1	100mg	
MM3322.03	Tiaprofenic Acid Isopropyl Ester	n/a	100mg	

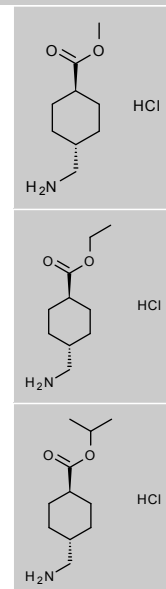
Products — Esterification

MM3322.04	Tiaprofenic Acid 1,3-Butylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg
MM3322.05	Tiaprofenic Acid 2,3-Butylene Glycol Ester	n/a	100mg
MM3322.06	Tiaprofenic Acid 1,2-Propylene Glycol Esters (Mixture of Regio- and Stereoisomers)	n/a	100mg



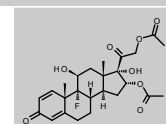
Tranexamic Acid

MM0330.09	Tranexamic Acid Methyl Ester Hydrochloride	n/a	100mg
MM0330.10	Tranexamic Acid Ethyl Ester Hydrochloride	n/a	100mg
MM0330.11	Tranexamic Acid Isopropyl Ester Hydrochloride	n/a	100mg



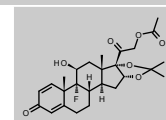
Triamcinolone

MM0198.02	Imp. A (EP): 9-Fluoro-11 β ,17-dihydroxy-3,20-dioxopregna-1,4-diene-16 α ,21-diyl Diacetate (Triamcinolone 16,21-Diacetate)	67-78-7	100mg
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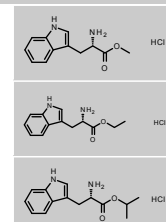
Triamcinolone Acetonide

MM0198.09	Imp. F (EP): 9-Fluoro-11 β -hydroxy-16 α ,17-(1-methylethylidenedioxy)-3,20-dioxopregna-1,4-dien-21-yl Acetate (21-Acetate Triamcinolone Acetonide)	3870-07-3	100mg
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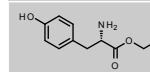
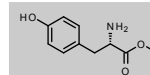
Tryptophan

MM0172.15	L-Tryptophan Methyl Ester Hydrochloride	7524-52-9	100mg
MM0172.18	L-Tryptophan Ethyl Ester Hydrochloride	2899-28-7	100mg
MM0172.19	L-Tryptophan Isopropyl Ester Hydrochloride	71959-71-2	100mg



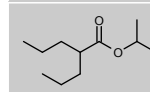
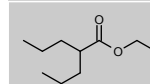
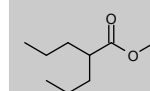
Tyrosine

MM0634.04	L-Tyrosine Methyl Ester	1080-06-4	100mg
MM0634.05	L-Tyrosine Ethyl Ester	949-67-7	100mg



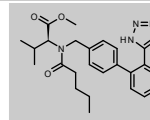
Valproic Acid

MM0751.14	Methyl Valproate	22632-59-3	100mg
MM0751.18	Ethyl Valproate	17022-31-0	100mg
MM0751.19	Isopropyl Valproate	60498-67-1	50mg



Valsartan

MM0487.01	Valsartan Methyl Ester	137863-17-3	50mg
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For full listing of offices see:
lgcstandards.com

1 Brazil

Tel: +55 12 3302 5880
Email: bz@lgcstandards.com

2 Bulgaria

Tel: +359 (0)2 971 4955
Email: bg@lgcstandards.com

3 China

Tel: +86 400 9216156
Email: infochina@lgcgroup.com

4 France

Tel: +33 (0)3 88 04 82 82
Email: fr@lgcstandards.com

5 Germany

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

6 Hungary

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

7 Ireland

Tel: +44 (0)20 8943 8480
Email: uksales@lgcstandards.com

8 Italy

Tel: +39 02 22476412
Email: it@lgcstandards.com

9 Middle East

Tel: +49 (0)281 9887 0
Email: global.sales@lgcgroup.com

10 Netherlands

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

11 Nordic countries

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

12 Poland

Tel: +48 22 751 31 40
Email: pl@lgcstandards.com

13 Romania

Tel: +40 364 116890
Email: ro@lgcstandards.com

14 Russia

Tel: +7 812 777 04 88
Email: ru@lgcgroup.com

15 South Africa

Tel: +27 (0)11 466 4321
Email: sales.za@lgcgroup.com

16 Spain

Tel: +34 (0)93 308 4181
Email: es@lgcstandards.com

17 Turkey

Tel: +90 530 880 33 90
Email: tur@lgcstandards.com

18 United Kingdom

Tel: +44 (0)20 8943 8480
Email: uksales@lgcstandards.com

19 USA + Canada

Tel: +1 (603) 622 7660
Email: lgcusa@lgcstandards.com

Export queries

Tel: +49 (0) 281 9887 250
Email: global.sales@lgcgroup.com