

Damavand Darou
Manufacturing Company

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History

Damavand Darou API Pharmaceutical Co.

Damavand Darou API Pharmaceutical Company is one of the highly fast growing pharmaceutical companies with production of API line. It was established in 2005 by the name of Damavand Darou API manufacturing Company that runs totally by private sector.
Damavand Darou API manufactures and markets very wide range of Active Pharmaceutical Ingredients products under cGMP rules and regulations and other internationally accepted standards.
Damavand Darou API owes its reputation for the wide variety of products manufactured such as:

- Cardiovascular
- CNS
- GIT
- NSAID'S
- Sexual

Damavand Darou API Co. is an Iranian pioneer company active in research, development and manufacturing high quality and safe products using the latest knowledge and technologies based on local and global standards.

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SILDENAFIL CITRATE

Chemical Name: 1-[[3-(6,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl) -4-ethoxyphenyl]sulfonyl]-4-methyl, 2-hydroxy-1,2,3-propanetricarboxylate (1:1) .
1-[[3-(6,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin -5-yl)-4- ethoxyphenyl] sulfonyl]-4-methylpiperazine citrate (1:1).
Indication: Sildenafil is a phosphodiesterase-5 (PDE5) inhibitor that is predominantly employed for two primary indications: (1) the treatment of erectile dysfunction; (2) treatment of pulmonary hypertension.
Reference: BP2024 & USP 47
CAS Registry Number: 171599-83-0
Molecular Weight: 666.70 g/mol
Brand names: Viagra, Kamagra, Niagra, Vaga, Caverta.

SITAGLIPTIN PHOSPHATE MONOHYDRATE

Chemical Name: 1,2,4-Triazolo[4,3-a]pyrazine, 7-[(3R)-3-amino-1-oxo-4-(2,4,5-trifluoro-phenyl) butyl]-5,6,7,8-tetrahydro-3-(trifluoromethyl)-, phosphate (1:1) monohydrate;
7-[(R)-3-Amino-4-(2,4,5-trifluorophenyl)butanoyl]-3-(trifluoromethyl)-5,6,7,8-tetrahydro-1,2,4-triazolo[4,3-a]pyrazine monophosphate monohydrate;
(3R)-3-Amino-1-[3-(trifluoromethyl)-5,6-dihydro[1,2,4]triazolo[4,3-a] pyrazin-7 (8H)-yl-4- (2,4,5-trifluorophenyl)butan-1-one phosphate monohydrate.
Indication: Sitagliptin is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus. It is not used to treat type 1 diabetes or patients with a history of pancreatitis. It is also used in combination with metformin 8 or ertugliflozin.
Reference: BP2024 & USP 47
CAS Registry Number: 654671-77-9
Molecular Weight: 523.32 g/mol
Brand names: Januvia, Janumet

SODIUM VALPROATE

Chemical Name: Sodium 2-propylpentanoate.
Indication: 1) Use as monotherapy or adjunctive therapy in the management of complex partial seizures and simple or complex absence seizures. 2) Adjunctive therapy in the management of multiple seizure types that include absence seizures. 3) Prophylaxis of migraine headaches. 4) Acute management of mania associated with bipolar disorder.
Off-label uses include: 1) Maintenance therapy for bipolar disorder. 2) Treatment for acute bipolar depression. 3) Emergency treatment of status epilepticus.
Reference: BP2024
CAS Registry Number: 1069-66-5
Molecular Weight: 166.19 g/mol
Brand names: Depacon, Depakin, Orfiril, Epilim, Ergenyl, Leptilan.

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AMLODIPINE BESYLATE

Chemical Name: 3,5-Pyridinedicarboxylic acid, 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1, 4-dihydro-6-methyl, 3-ethyl 5-methyl ester, mono-benzenesulfonate.
3-Ethyl 5-methyl (±)-2-[(2- aminoethoxy) methyl]-4-(o-chlorophenyl)-1,4-dihydro-6-methyl-3, 5-pyridinedicarboxylate, monobenzenesulfonate.
Indication: Amlodipine Besylate is an oral dihydropyridine calcium channel blocker. Amlodipine may be used alone or in combination with other antihypertensive and antianginal agents for the treatment of the following conditions: Hypertension, Coronary artery disease, Chronic stable angina, Vasospastic angina (Prinzmetal's or Variant angina), Angiographically documented coronary artery disease in patients without heart failure or an ejection fraction < 40%.
Reference: BP2024 & USP 47
CAS Registry Number: 111470-99-6
Molecular Weight: 567.05 g/mol
Brand names: Norvasc, Monopina, Istin, Antacal, Amlor.



CARVEDILOL

Chemical Name:2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl] amino]-, (±)-.
(±)-1-(Carbazol-4-yloxy)-3-[[2-(o-methoxy-phenoxy)ethyl]amino]-2-propanol.
Indication: Carvedilol is indicated to treat mild to severe heart failure, left ventricular dysfunction after myocardial infarction with ventricular ejection fraction ≤40%, or hypertension.

Reference: BP2024 & USP 47
CAS Registry Number: 72956-09-3
Molecular Weight: 406.47 g/mol
Brand names: Coreg, Dilatrend, Dimitone, Cordex.

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SPIRONOLACTONE

Spironolactone is a potassium-sparing diuretic (water pill) that prevents your body from absorbing too much salt and keeps your potassium levels from getting too low.Spironolactone is used to treat heart failure, high blood pressure (hypertension), or hypokalemia (low potassium levels in the blood). Spironolactone also treats fluid retention (edema) in people with congestive heart failure, cirrhosis of the liver, or a kidney disorder called nephrotic syndrome. Spironolactone is also used to diagnose or treat a condition in which you have too much aldosterone in your body. Aldosterone is a hormone produced by your adrenal glands to help regulate the salt and water balance in your body.

API CHARACTERISTICS: Pure, stable, anhydrous , crystalline form - Good control of impurity profile by handling chemical steps in-house - PSD tailored to FDF needs - Technical support available on request

Iupac name: (2'R)-7'-(Acetylsulfanyl)-3',4'-dihydro-5'H-spiro[androst-4-ene-17,2'-furan]-3,5'-dione.

CAS Registry Number: 52-01-7 **Molecular Weight:** 416.6 g/mol

Brand names: Aldactone, CaroSpir

SUMATRIPTAN SUCCINATE

Chemical Name: [3-[2-(Dimethylamino)ethyl]-1H-indol-5-yl]-N-methylmethanesulfonamide hydrogen butanedioate.

1H-Indole-5-methanesulfonamide, 3-[2-(dimethylamino)ethyl]-N-methyl-, butanedioate (1:1).

3-[2-(Dimethylamino)ethyl]-N-methylindole-5-methanesulfonamide succinate (1:1).

Indication: A combination sumatriptan and naproxen tablet is indicated for the treatment of migraines with or without auras in patients 12 years of age and older. Sumatriptan nasal powder, nasal spray, subcutaneous injection, and tablets are indicated to treat migraines with or without auras in adults.6 One of the subcutaneous formulations of sumatriptan is also indicated to treat cluster headaches in adults.

Reference: BP2024 & USP 47 **CAS Registry Number:** 103628-48-4

Molecular Weight: 413.49 g/mol

Brand names: Imigran, Imitrex,Sumigran, Alsuma.

IBUPROFEN

Indication: Ibuprofen is a nonsteroidal anti-inflammatory drug (NSAID). It works by reducing hormones that cause inflammation and pain in the body. Ibuprofen is used to reduce fever and treat pain or inflammation caused by many conditions such as headache, toothache, back pain, arthritis, menstrual cramps, or minor injury. Ibuprofen is used in adults and children who are at least 6 months old.

API CHARACTERISTICS: Pure, stable, anhydrous , crystalline form - Good control of impurity profile by handling chemical steps in-house - PSD tailored to FDF needs - Technical support available on request

Iupac name: 2-[4-(2-methylpropyl)phenyl]propanoic acid. (2RS)-2-[4-(2-Methylpropyl)phenyl]propanoic acid.

CAS Registry Number: 15687-27-1 **Molecular Weight:** 206.3 g/mol

Brand names: Nurofen, Advil, Brufen, Motrin, Nuprin, and Liptan

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CYPROHEPTADINE HCl

Chemical Name: Piperidine,4-(5H-dibenzo[a,d]cyclohepten-5- ylidene)-1-methyl-,hydrochloride,sesquihydrate.
4-(5H-Dibenzo[a,d]cyclohepten-5-ylidene)-1-methylpiperidine hydrochloride sesquihydrate.

Indication: In the US, prescription cyproheptadine is indicated for the treatment of various allergicsymptomatologies - including dermatographia, rhinitis, conjunctivitis, and urticaria - as well as adjunctive therapy in the management of anaphylaxis following treatment with epinephrine. In Canada, cyproheptadine is available over-the-counter and is indicated for the treatment of pruritus and for appetite stimulation. In Australia, cyproheptadine is additionally indicated for the treatment vascular headaches. Cyproheptadine is also used off-label for the treatment of serotonin syndrome.

Reference: BP2024 & USP 40 **CAS Registry Number:** 41354-29-4

Molecular Weight: 350.9 g/mol

Iupac name:1-methyl-4-(2-tricyclo[9.4.0.03,8]pentadeca-1(15),3,5,7,9,11,13-heptaenylidene) piperidine;hydrochloride

Brand names: Antergan, Dihexazin, Nuran, Periactin, Peritol, Viternum, Vimicon. Ciplactin.



CHLORPHENIRAMINE MALEATE

Chemical Name: (3RS)-3-(4-Chlorophenyl)-N,N-dimethyl-3-(pyridin-2-yl)propan-1-amine hydrogen (Z)- butenedioate.
2-Pyridinepropanamine,γ-(4-chlorophenyl)-N,N-dimethyl-,(Z)-2-butenedioate (1:1).
2-[p-Chloro-α-[2-(dimethylamino)ethyl]benzyl] pyridine maleate (1:1).

Indication: Chlorpheniramine is used to treat runny nose, sneezing, itching, and watery eyes caused by allergies, the common cold, or the flu.

Reference: BP2024 & USP 47 **CAS Registry Number:** 113-92-8

Molecular Weight: 390.86 g/mol

Brand names: Allergisan, Antagonate, Piriton, Teldrin, Pyridamal, Lorphen, Histaspan, Cloropiril.

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GEMFIBROZIL

Chemical Name: Cyclohexaneacetic acid, 1-(aminomethyl)-. 1-(Aminomethyl)cyclohexaneacetic acid.
Indication: Gemfibrozil is indicated to treat patients with Types IV and V hyperlipidemia who have elevated serum triglycerides (usually above 2000mg/dL), elevated VLDL cholesterol, fasting chylomicrons, are at risk of developing pancreatitis, and do not adequately respond to dietary restrictions. Gemfibrozil is also indicated to reduce the risk of developing coronary heart disease in patients with Type IIb hyperlipidemia without history or symptoms of coronary heart disease; who do not adequately respond to weight loss, diet, exercise, and other medications; and have low HDL, raised LDL, and raised triglycerides.

Reference: BP2024 & USP 47
CAS Registry Number: 25812-30-0
Molecular Weight: 250.33 g/mol
Iupac name: 5-(2,5-dimethylphenoxy)-2,2-dimethylpentanoic acid
Brand names: Lopid, gevilon

LOSARTAN POTASSIUM

Chemical Name: 1H-Imidazole-5-methanol, 2-butyl-4-chloro-1-[[2′-(1H-tetrazol-5-yl)[1,1′-biphenyl]-4-yl]methyl]-,monopotassium salt.
2-Butyl-4-chloro-1-[p-(o-1H-tetrazol-5-ylphenyl)benzyl]imidazole-5-methanol, monopotassium salt.
Indication: Losartan is indicated to treat hypertension in patients older than 6 years, reduce the risk of stroke in patients with hypertension and left ventricular hypertrophy (though this benefit may not extend to patients with African heritage), and to treat diabetic nephropathy with elevated serum creatinine and proteinuria in patients with type 2 diabetes and hypertension. Losartan with hydrochlorothiazide is indicated to treat hypertension and to reduce the risk of stroke in patients with hypertension and left ventricular hypertrophy (though this benefit may not extend to patients with African heritage).

Reference: BP2024 & USP 47
CAS Registry Number: 124750-99-8
Molecular Weight: 461.0 g/mol
Iupac name: potassium;[2-butyl-5-chloro-3-[[4-[2-(1,2,3-triaza-4-azanidacyclopenta2,5-dien-5-yl) phenyl]phenyl]methyl]imidazol-4-yl]methanol
Brand names: Cozaar, Lortaan, Losaprex, Neo-Lotan

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DIVALPROEX SODIUM

Divalproex sodium is used to treat certain types of seizures (epilepsy). This medicine is an anti-convulsant that works in the brain tissue to stop seizures. Divalproex sodium is also used to treat the manic phase of bipolar disorder (manic-depressive illness) and helps prevent migraine headaches.

API CHARACTERISTICS:

Pure, stable, anhydrous , powder - Good control of impurity profile by handling chemical steps in-house - PSD tailored to FDF needs - Technical support available on request.

CAS Registry Number: 76584-70-8
Molecular Weight: 310.40 g/mol
Iupac name: sodium;2-propylpentanoate;2-propylpentanoic acid
Brand name: Depakote, Depakote ER



FLUOXETINE HCL

Chemical Name: (3RS)-N-Methyl-3-phenyl -3-[4-(trifluoromethyl)phenoxy]propan-1-amine hydrochloride.
Benzenepropanamine, N-methyl-γ-[4-(trifluoro-methyl)phenoxy]-, hydrochloride, (±).
(±)-N-Methyl-3-phenyl-3-[(α,α,α-trifluoro-p-tolyl)oxy]propylamine, hydrochloride.
Brand names: Adofen, Fluctin, Fluoxeren, Fontex, Foxetin, Reneuron, Prozac

Indication: Fluoxetine is indicated for both acute and maintenance treatment of major depressive disorder, obsessive compulsive disorder, and bulimia nervosa; however, it is only indicated for acute treatment of panic disorder independent of whether agoraphobia is present. Fluoxetine may also be used in combination with olanzapine to treat depression related to Bipolar I Disorder, and treatment resistant depression. Fluoxetine is additionally indicated for the treatment of female patients with premenstrual dysphoric disorder (PMDD).
Reference: BP2024 & USP 47
CAS Registry Number: 56296-78-7 **Molecular Weight:** 345.8 g/mol
Iupac name: N-methyl-3-phenyl-3-[4-(trifluoromethyl)phenoxy]propan-1- amine;hydrochloride

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METOPROLOL TARTRATE

Chemical Name: 2-Propanol, 1-[4-(2-methoxyethyl)phenoxy]-3-[(1-methylethyl)amino]-, (±)-, [R-(R*,R*)]-2,3-dihydroxybutanedioate (2:1) (salt).
(±)-1-(Isopropylamino)-3-[p-(2-methoxyethyl)phenoxy]-2-propanol l-(+)-tartrate (2:1) (salt).
1-(Isopropylamino)-3-[p-(2-methoxyethyl)phenoxy]-2-propanol (2:1) dextro-tartrate salt.

Indication: Metoprolol is indicated for the treatment of angina, heart failure, myocardial infarction, atrial fibrillation, atrial flutter and hypertension.
Some off-label uses of metoprolol include supraventricular tachycardia and thyroid storm.
All the indications of metoprolol are part of cardiovascular diseases. These conditions correspond to a number of diseases that involve the function of the heart and blood vessels.
Reference: BP2024 & USP 47
CAS Registry Number: 56392-17-7 **Molecular Weight:** 684.81 g/mol
Brand names: Beloc, Betaloc, Lopresor, Prelis, Seloken, Selopral, Selo-Zok.

PHENYLEPHRINE HCL

Chemical Name: Benzenemethanol, 3-hydroxy-α-[(methylamino)methyl]-, hydrochloride (R)-; (¯)-m-Hydroxy-α-[(methylamino)methyl]benzyl alcohol hydrochloride; (1R)-1-(3-Hydroxyphenyl)-2-(methylamino)ethanol hydrochloride.

Indication: Phenylephrine is a decongestant that is used to treat stuffy nose and sinus congestion caused by the common cold, hay fever, or other allergies.
Reference: BP2024 & USP 47
CAS Registry Number: 61-76-7 **Molecular Weight:** 203.67 g/mol
Brand names: Ak-Dilate, Ak-Nefrin, Isophrin, Mydfrin, Neophryn, Neo-Synephrine, Prefrin, Mezaton, Adrianol.

PHENYTOIN SODIUM

Phenytoin Sodium is the sodium salt form of phenytoin, a hydantoin derivate and non-sedative antiepileptic agent with anticonvulsant activity. Phenytoin sodium promotes sodium efflux from neurons located in the motor cortex, thereby stabilizing the neuron and inhibiting synaptic transmission. This leads to a reduction in posttetanic potentiation at synapses, an inhibition of repetitive firing of action potentials and ultimately inhibits the spread of seizure activity.
API CHARACTERISTICS:
Pure, stable, anhydrous , very hygroscopic, crystalline form - Good control of impurity profile by handling chemical steps in-house - PSD tailored to FDF needs - Technical support available on request
CAS Registry Number: 630-93-3 **Molecular Weight:** 274.25 g/mol
Iupac name: sodium;5,5-diphenylimidazolidin-3-ide-2,4-dione
Brand name: Dilantin, Phenytek

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FLUVOXAMINE MALEATE

Chemical Name:1-Pentanone, 5-methoxy-1-[4-(trifluoromethyl)phenyl]-, O-(2-aminoethyl)oxime, (E)-, (Z)-2-butenedioate (1:1).
5-Methoxy-4′-(trifluoromethyl)valerophenone (E)-O-(2-aminoethyl)oxime, maleate (1:1).
2-[[[(1E)-5-Methoxy-1-[4-(trifluoromethyl)phenyl] pentylidene]amino]oxy] ethanamine (Z)-butenedioate.

Indication:Indicated predominantly for the management of depression and for Obsessive Compulsive Disorder (OCD). Has also been used in the management of bulimia nervosa
Reference: BP2024 & USP 47
CAS Registry Number: 61718-82-9 **Molecular Weight:** 434.31 g/mol
Brand names: Luvox, Faverin, Fevarin, Dumirox, Floxyfral, Maveral.



GABAPENTIN

Chemical Name: Cyclohexaneacetic acid, 1-(aminomethyl)-.
1-(Aminomethyl)cyclohexaneacetic acid.

Indication:In the United States, gabapentin is officially indicated for the treatment of postherpetic neuralgia in adults and for the adjunctive treatment of partial-onset seizures, with or without secondary generalization, in patients 3 years of age and older. In Europe, gabapentin is indicated for adjunctive therapy in the treatment of partial-onset seizures, with or without secondary generalization, in patients 6 years of age and older and as monotherapy in patients 12 years of age and older. It is also used in adults for the treatment of various types of peripheral neuropathic pain, such as painful diabetic neuropathy.
Reference: BP2024 & USP 47
CAS Registry Number: 60142-96-3 **Molecular Weight:** 171.24 g/mol
Brand names: Neurontin, Apo-gabapentin, Horizant, Gralise, Neuropentin.

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