



## MT Trading Co., Ltd.

International Sales division : SMTY Bill 8F, 6-5-3, Nishinakajima, Yodogawa, Osaka, Japan, 532-0011



## RAW MATERIAL CONTROL SYSTEM





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# COMMITTED TO HIGH-QUALITY MANUFACTURING

Benepure owns 3 plants manufacturing botanical extracts, APIs and amino acids series products in China. Benepure prides itself on manufacturing system standard above the GMP of multiple countries, which can meet demands of various international regulations. So far, benepure works with other 5 CMO factories in strategy, and keeps seeking cooperation with more quality manufacturers to improve its products supply-chain.

With high quality system, cutting-edge technologies, highly qualified professionals, strict safety standards, and the most up-to-date equipment, Benepure always steps ahead solutions and supplies qualified products.

Meanwhile, Benepure is dedicated to the reduction of emission pollution and environmental protection during the manufacturing process for long-term sustainability of social and economic development.

We're devoted to delivering not only our specially products but customized products as well with our professional services to customers' characters and requirements.

GMP/HACCP  
Standard

OEM

Sustainable  
Development

Responsible  
& Traceable







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# Citrimore

Various Citrus



Citrimore is formed for citrus extracts and their derivatives. Through decades' in-depth study on various of citrus in different places of origin, we obtain a clear understanding in Citrus.

[www.citrimore.com](http://www.citrimore.com)



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## DIOSMIN

### DESCRIPTION

Diosmin is a semisynthetic flavonoid molecule derived from citrus d (modified hesperidin).

Diosmin is used for treating various disorders of blood vessels including hemorrhoids, varicose veins, poor circulation in the legs (venous stasis), and bleeding (hemorrhage) in the eye or gums. It is also used to treat swelling of the arms (lymphedema) following breast cancer surgery, and to protect against liver toxicity. It is often taken in combination with hesperidin.

Diosmin is currently a prescription medication, and is also sold as a nutritional supplement.



Botanical Source: *Citrus Aurantium L.*

CAS No.: 520-27-4

EIENS: 208-289-7

Molecular Formula: C<sub>28</sub>H<sub>32</sub>O<sub>15</sub>

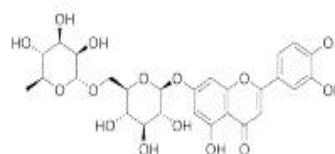
Molecular Weight: 608.545

Specification: EP, BP, USP, 90:10, Micronized

Appearance:

Greyish-yellow or light yellow hygroscopic powder

Chemical Structure:



CITRIMORE®

### TECHNOLOGY ADVANTAGES

High Assay: ≥95% for EP standard

Impurity Control: Total impurities ≤4.0%

Low Pesticide Residue

Solvents Free

### PRODUCTION CAPACITY

300 mt/Year

We can also control the quality on customers' request.

## DIOSMIN+HESPERDIN 90:10

**DMF, CEP, EU-GMP**

It is the mixture of Diosmin and Hesperidin, which is widely used for pharmaceutical and food supplement.

### NEW TECHNOLOGY

Benepure has developed new technology to get the mixture directly by reaction process instead of blending. And the assay can be customized as request.

### SPECIFICATIONS

Micronized

Micronized+Granulated





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# HESPERIDIN

## DESCRIPTION

The flavonoid hesperidin is a flavanone glycoside (glucoside) comprised of the flavanone (a class of flavonoids) hesperitin and the disaccharide rutinose. Flavonoids are a type of polyphenol, which are antioxidants found in plants and are essential to human health.

Besides its antioxidant properties, hesperidin can also be used as an anti-inflammatory, anti-allergic, hypolipidemic, vasoprotective, and anti-carcinogenic compound. It seems to reduce the symptoms of allergies and hay fever by inhibiting histamine production in the blood. Hesperidin, in combination with a flavone glycoside called diosmin, is used for the treatment of venous insufficiency and hemorrhoids.

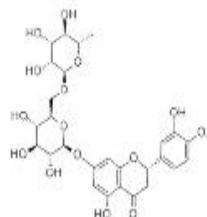
CAS No.: 520-26-3

Molecular Formula: C<sub>28</sub>H<sub>34</sub>O<sub>15</sub>

Molecular Weight: 610.57

Specification: 90~95% HPLC, 98% UV, Micronized

Chemical Structure:



## RAW MATERIAL BASES



Raw material harvest time is about June to August.

Benepure would visit the bases and evaluate to make the purchasing plan, and select properly to guarantee the stability and abundance of the raw material supplying.







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## HESPERIDIN METHYLCHALCONE



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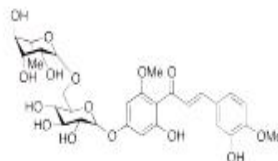
### DESCRIPTION

Hesperidin Methylchalcone is a methylate compound of soluble flavanone and soluble dihydrochalcone which can increase the effect of vitamin C with the same function as vitamin P.

What's more, characters in strong anti-virus and anti-bacteria. It is preventing influenza virus' breeding with large dosage, inhibiting tyrosinase which causing skin to black.

For the treatment of black spot, freckle such skin disease. It has an effect on remaining normal permeability, boosting resistance, enhancing elastic and toughness of vessels, preventing and curing bleeding of capillary or gums.

CAS No.: 24292-52-2  
Molecular Formula: C<sub>29</sub>H<sub>36</sub>O<sub>15</sub>  
Molecular Weight: 624.59  
Specification: 98% UV  
Appearance: Yellow powder  
Chemical Structure:



## NARINGIN

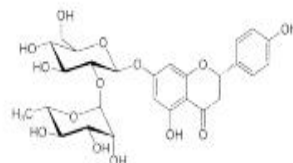
### DESCRIPTION

Naringin is a natural chemical compound known as a bioflavonoid found in grapefruit and other citrus fruits, giving it its bitter flavor. Hence, the food industry, uses naringin as a bitter in "tonic" beverages, bitter chocolate, ice cream, and ices.

This bioflavonoid has antioxidant and antifungal properties, as such may help prevent cancer and atherosclerosis (hardening of arteries), as well as a number of other ailments, such as Herpes, Diabetes, Alcoholism, Heart failure, Chronic venous insufficiency, Bruising.

Naringin also works synergistically with other nutrients, increasing the bio-availability (how much nutrient is absorbed by the body) and therefore maximizing the health benefits of these nutrients.

CAS No.: 10236-47-2  
Molecular Formula: C<sub>27</sub>H<sub>32</sub>O<sub>14</sub>  
Molecular Weight: 580.54  
Specification: 90%, 95%, 98% HPLC  
Appearance: Almost white powder  
Chemical Structure:





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## NEOHESPERIDIN

CAS No.: 13241-33-3

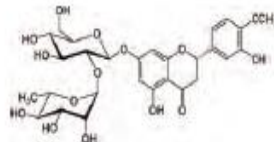
Molecular Formula: C<sub>28</sub>H<sub>34</sub>O<sub>15</sub>

Molecular Weight: 610.56

Specification: 95% HPLC

Appearance: Light white fine powder

Chemical Structure:



## DESCRIPTION

It is the 7-O-neohesperidose derivative of hesperetin, which in turn is the 4'-methoxy derivative of eriodictyol. The main use of Neohesperidin is to get Neohesperidin dihydrochalcone which is an intensive sweetener widely used in food and feed industry.

## HIDROSMIN

## DESCRIPTION

Hidrosmín, a derivative of Diosmin, is a semisynthetic drug and a member of the flavonoid family. It is used for the treatment of venous diseases.

Compared with Diosmin, Hidrosmín is more effective, which can efficiently treat edema and varicose ulcer. Hidrosmín gains better water solubility, and can be more easily absorbed by human body, less dosage required when people take it.

CAS No.: 115960-14-0

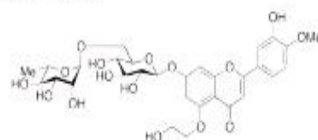
Molecular Formula: C<sub>30</sub>H<sub>36</sub>O<sub>16</sub>

Molecular Weight: 654.6142

Specification: ≥85% HPLC

Appearance: Yellow or yellow-brown hygroscopic powder, odorless

Chemical Structure:



## HESPERETIN

## DESCRIPTION

Hesperetin is the 4'-methoxy derivative of eriodictyol, a flavanone. Hesperetin's 7-O-glycoside, is hesperidin. It is obtained from the enzymolysis of hesperidin.

It is mainly coming from the enzymolysis of hesperidin with the functions of invigorating the stomach, eliminating phlegm, preventing cough, expelling rheumatism, treating diuresis, anti-virus, anti-microbial, treating non-return and relieving stomachache, widely used in the food, pharmaceutical and healthcare product industry etc.

CAS No.: 520-33-2

Molecular Formula: C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>

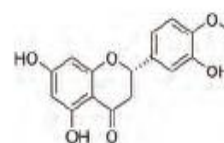
Molecular Weight: 302.28

Specification: 90%, 95%, 98% HPLC

Appearance:

Light-cream yellow fine powder, melting point: 226-228°C, easily soluble in ethanol, soluble in diluted alkali solution, partly soluble in diethyl ether, slightly soluble in water, chloroform and benzene.

Chemical Structure:





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## CITRUS AURANTIUM EXTRACT (SYNEPHRINE)

### SYNEPHRINE

CAS No.: 94-07-5

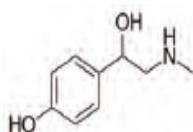
Molecular Formula: C<sub>9</sub>H<sub>13</sub>NO<sub>2</sub>

Molecular Weight: 167.21

Specification: 6%-98% HPLC

Appearance: Brown to white fine powder

Chemical Structure:



### DESCRIPTION

Synephrine is the main active ingredient in the citrus aurantium extract, which is mainly used in dietary supplements and slimming products. It can effectively oxidize fat and suppress appetite as the main component of slimming products.

Synephrine for the treatment of bronchial asthma and surgery and anesthesia, hypotension, collapse and shock, orthostatic hypotension. Synephrine is also a 21st century natural stimulant with no side effects and positive reactions.

It is widely used in the health care industries such as medicine, food and beverage. The demand and value of synephrine will increase with the ban on the use of chemically synthesized drugs.

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## CITRUS BIOFLAVONOIDS

### DESCRIPTION

The common citrus bioflavonoids include Apigenin, Diosmin, Diosmetin, Hesperidin, Hesperetin, Naringin, Naringenin, Narirutin, Neohesperidin, Nobiletin, Quercetin, Rutin, Tangeretin.

Citrus bioflavonoids and related substances are widely used to treat diseases of the blood vessels and lymph system, including hemorrhoids, chronic venous insufficiency, leg ulcers, easy bruising, nosebleeds, and lymphedema following breast cancer surgery.

Citrus bioflavonoids are thought to work by strengthening the walls of blood vessels.

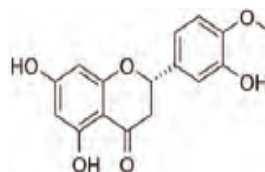
Citrus bioflavonoids are believed to have antioxidants, anti-viral, anti-inflammatory, and anti-allergy properties. They have been shown to help fight infection, free radical damage, viruses and the common cold.

Specification: 20%-85% HPLC, Water Soluble 10%-35%

Appearance:

Brownish powder, soluble in dimethyl formamide and formamide at 60°C, slightly soluble in methanol and heat glacial acetic acid, practically insoluble in acetone, benzene and chloroform, freely soluble in dilute alkali and pyridine.

Chemical Structure:







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## RUTIN



### DESCRIPTION

Rutin, also called rutoside, is the glycoside combining the flavonol quercetin and the disaccharide rutinose.

Rutin is a glycoside of the flavonoid quercetin. As such, the chemical structures of both are very similar, with the difference existing in the hydroxyl functional group. Both quercetin and rutin are used in many countries as medications for blood vessel protection, and are ingredients of numerous multivitamin preparations and herbal remedies.

It has function of reducing capillary permeability and fragility and also can be used as adjuvant treatment in preventing hypertension.

CAS No.: 250249-75-3

Molecular Formula: C<sub>20</sub>H<sub>36</sub>O<sub>3</sub>

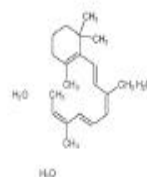
Molecular Weight: 324.498

Specification: EP, NF11, DAB10

Appearance:

Yellow or greenish-yellow crystalline powder.

Chemical Structure:



TROXEPURE®

### DESCRIPTION

Troxerutin also called Venoruton, Vitamin P4, is classified as bioflavonoid. It is a derivate of Rutin through hydroxyethylation, able to use directly as API. It can be used to the treatment of varication, thrombosis and cerebrovascular disease, thrombosis has better water-solubility and drug effect than Rutin.

Troxerutin is useful in inhibiting aggregation of red blood cells and platelets, preventing thrombogenesis, increasing blood oxygen content and promoting neovascularity at the same time.

It can also build up capillary resistance, lower capillary permeability, so that to prevent edema caused by increasing capillary permeability. It is with more functions, such as anti-radiation lesion, anti-inflammatory, anti-allergic, anti-ulcer, etc

## TROXERUTIN

CAS No.: 7085-55-4

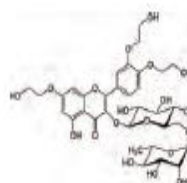
Molecular Formula: C<sub>30</sub>H<sub>36</sub>O<sub>16</sub>

Molecular Weight: 742.67

Specification: EP

Appearance: Yellow powder

Chemical Structure:





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### CITRUS

Hesperidin	90%~95%HPLC, 98%UV	520-26-3
Diosmin	EP, BP, USP, 90:10, Micronized	520-27-4
Hesperidin Methylchalcone	98%UV	24292-52-2
Neohesperidin Dihydrochalcone	EP	20702-77-6
Citrus Bioflavonoids	20%~85%HPLC, Water soluble 10%~35%	N/A
Naringin	98%HPLC	10236-47-2
Neohesperidin	95%HPLC	13241-33-3
Citrus Aurantium Extract	Synephrine 6%~98%HPLC	94-07-5
Citrus Polymethoxy Flavones(PMFs)	30%~80%HPLC	N/A
Hidrosmin	85%HPLC	115960-14-0
Hesperetin	90%, 95%, 98%HPLC	520-33-2
Naringenin	98%HPLC	480-41-1
Naringin Dihydrochalcone	98%HPLC	18916-17-1
Methyl Hesperidin	94%UV	24292-52-2
Diosmetin	90%~98%HPLC	520-34-3
Nobiletin	1%~98%HPLC	478-01-3
Tangeretin	1%~98%HPLC	481-53-8
Limonin	30%~98%HPLC	1180-71-8
Lemon Bioflavonoids	50%HPLC	N/A
Apigenin	90%~95%HPLC	520-36-5
Luteolin	90%~95%HPLC	491-70-3

### RESVERATROL

Resveratrol (Polygonum Cuspidatum)	20%~99%HPLC	501-36-0
Resveratrol (Vitis vinifera L.)	3%, 5% HPLC	501-36-0

### SOPHORA JAPONICA L.

Rutin	EP, NF11, DAB10	250249-75-3
Troloxerutin	EP	7085-55-4
Quercetin	95%HPLC, 98%UV, HBD, Granular	6151-25-3/117-39-5
L-rhamnose Monohydrate	98%HPLC	10030-85-0

### NATURAL SWEETENERS

Neohesperidin Dihydrochalcone	EP	20702-77-6
Stevia Leaf Extract	Steviol Glycosides, Reb-A, STV, Glucosyl Steviol	N/A
Luo Han Guo Extract	Mogrosides, Mogroside V	N/A
Naringin Dihydrochalcone	98%HPLC	18916-17-1
L-rhamnose Monohydrate	98%HPLC	10030-85-0



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### TEA EXTRACTS & DERIVATIVES

Tea Extract	Polyphenols 30%~98%UV Catechin Monomer Series (EGCG, EC, EGC, ECG) Theanine Tea Polysaccharide Theaflavin, Theabrownins
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### POLYPHENOLS & ANTHOCYANIDINS

Grape Seed Extract	OPC 90%~98% UV
Bilberry Extract	Anthocyanidin 5%~25%UV, Anthocyanins 5%~36%HPLC, Concentrated Juice Powder
Black Currant Extract	Anthocyanidin 1%~25%UV, Anthocyanins 1%~36%HPLC, Concentrated Juice Powder
Blueberry Extract	Anthocyanidin 5%~25%UV, Anthocyanins 5%~35%HPLC, Concentrated Juice Powder
Cranberry Extract	OPC 5%~60%UV, Anthocyanidins 5%~25%, Concentrated Juice Powder
Lingonberry Extract	OPC 5%~60%UV, Anthocyanidins 5%~25%, Concentrated Juice Powder
Pine Bark Extract	OPC 90%~98% UV
Echinacea Purpurea Extract	Polyphenols 4%~7%HPLC/UV
Apple Extract	Polyphenols 70%~80%UV, Concentrated Juice Powder
Mulberry Extract	OPC 25%UV, Anthocyanidins 25%, Concentrated Juice Powder

### OTHER BOTANICAL EXTRACTS

Berberine HCL	Epimedium Extract	Lemon Balm Extract
Baicalin	Tongkat Ali Extract	Maca Extract
Baicalein	Acerola Cherry Extract	Motherwort Extract
Esculin	Aloe Vera Extract	Olive Leaf Extract
Soy Isoflavones	Andrographolide	Passion Flower Extract
Milk Thistle Extract	Avocado Soybean Extract	Phosphatidylserine
Saw Palmetto Extract	Garlic Extract	Red Clover Extract
Ginkgo Biloba Extract	Ginger Extract	Rhodiola Rosea Extract
Oleonic Acid	Ginseng Extract	Rose Hip Extract
Beta-Ecdysterone	Griffonia Seed Extract (5-HTP)	Rotundine
Cat's Claw Extract	Guarana Extract	Shikimic Acid
Centella Asiatica Extract	Hop Flower Extract	St. John's Wort Extract
White Willow Bark Extract	Horse Chestnut Extract	Tribulus Terrestris Extract
Ferulic Acid	Huperzine A	Valerian Extract
Yohimbine HCL	Ivy Leaf Extract	Yucca Extract





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### VITAMIN SERIES & NUTRACEUTICAL SUPPLEMENTS

Coenzyme Q10	USP, CWS
Curcumin	95%, 98% HPLC
Lycopene	1%~90% HPLC
Lutein	5%~90% HPLC
Zeaxanthin	5%~80% HPLC
Capsaicin	95%~99% HPLC
Astaxanthin	1%~10% HPLC/UV, Powder/Oil
Red Yeast Rice Powder	Monacolin K
Inulin	90%, 95%
Spirulina Powder	Protein 60%
Chlorella Powder	Protein 60%
Vitamin B1	Pharm./Food/Feed Grade
Vitamin B6	Pharm./Food/Feed Grade
Vitamin B12	Pharm./Food/Feed Grade
Vitamin D2	Pharm./Food/Feed Grade
Vitamin D3	Pharm./Food/Feed Grade
Vitamin E	EP, Powder/Oil

### AMINO ACIDS & DERIVATIVES

Fmoc-Amino Acids	Fmoc-Ala-OH	Fmoc-His(Trt)-OH	Fmoc-Trp-OH
	Fmoc-Arg(Pbf)-OH	Fmoc-Ile-OH	Fmoc-Trp(tBu)-OH
	Fmoc-Asn(Trt)-OH	Fmoc-Leu-OH	Fmoc-Val-OH
	Fmoc-Asp(OtBu)-OH	Fmoc-Lys(Boc)-OH	Fmoc-D-Ala-OH
	Fmoc-Asp-OtBu	Fmoc-Met-OH	Fmoc-D-Arg(Pbf)-OH
	Fmoc-Cys(Trt)-OH	Fmoc-Orn(Boc)-OH	Fmoc-D-Glu(OtBu)-OH
	Fmoc-Cys(Acm)-OH	Fmoc-Phe-OH	Fmoc-D-Trp-OH
	Fmoc-Gln(Trt)-OH	Fmoc-Pro-OH	Fmoc-D-Trp(Boc)-OH
	Fmoc-Glu(OtBu)-OH	Fmoc-Ser(tBu)-OH	Fmoc-D-Phe-OH
	Fmoc-HomoArg(Pbf)-OH	Fmoc-Thr(tBu)-OH	
Boc-Amino Acids	Boc-Ala-OH	Boc-Asp(OtBu)-OH	Boc-Lys(Cbz)-OH
	Boc-Arg(Tos)-OH	Boc-His(Trt)-OH	Boc-Ser(Bzl)-OH
	Boc-Arg.HCL.H2O	Boc-Leu-OH.H2O	Boc-Thr(Bzl)-OH
	Boc-Asp-OtBu-OH	Boc-Lys(Boc)-OH.DCHA	Boc-Tyr(Bzl)-OH
	Boc-Asp-oBzl	Boc-Lys(2-CL-Z)-OH	Boc-Val-OH
Cbz-Amino Acids	Cbz-Arg(Tos)-OH	Cbz-Lys(2-CL-Z)-OH	Cbz-Thr(Bzl)-OH
	Cbz-Asp(OBzl)-OH	Cbz-Lys(Fmoc)-OH	Cbz-Tyr(Bzl)-OH
	Cbz-Asp(OtBu)-OH	Cbz-Ser(Bzl)-OH	Cbz-Val-OH
	Cbz-Glu(OBzl)-OH	Cbz-Ser(tBu)-OH	
Other Derivatives	H-Ala-NH2.HCL	D-His-OH	H-Tyr(Bzl)-OH
	H-Ala-OBzl.HCL	D-Ile-OH	H-Tyr(tBu)-OH
	H-Asp(OtBu)-OH	H-Lys(Boc)-OH	D-Trp-OH
	D-Arg.HCL	H-Leu-OtBu.HCL	D-Thr-OH
	D-Glu-OH	D-Leu-OH	H-Val-OBzl.Tos



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### APIs

Central Nervous System	Quetiapine Fumarate	EP8.0	111974-72-2
Alimentary Tract	Sulfasalazine	USP39	599-79-1
	Obeticholic Acid	Enterprise Standard	459789-99-2
	Eluxadoline	Enterprise Standard	N/A
	Ursodeoxycholic Acid	Enterprise Standard	128-13-2
Steroid Hormone	Ulipristal Acetate	Enterprise Standard	126784-99-4
Antineoplastic	Paclitaxel	Natural/Semi-synthetic	33069-62-4
	Beta-Sitosterol	40%-70%	83-46-5
Antiallergics	Levocetirizine Dihydrochloride	Enterprise Standard	130018-87-0
Local Anesthesia	Cincocaine HCL	USP40	61-12-1
	Tetracaine HCL	USP39	136-47-0
	Benzocaine	USP37/EP	94-09-7
Veterinary Drugs	Halquinol	BP8.0	8067-69-4
Respiratory System	Levodropropizine	EP8.0	99291-25-5

### INTERMEDIATES

Isavuconazonium Sulfate & Its Intermediates	≥95%, ee = 100%, Individual Impurity ≤0.0%	946075-13-4
	≥99%, ee = 100%, Individual Impurity ≤0.1%	241479-67-4
	≥99%, ee = 100%, Individual Impurity ≤0.1%	368421-58-3
	≥99%, ee = 100%, Individual Impurity ≤0.2%	241479-74-3
	≥99%, ee = 99%, Individual Impurity ≤0.2%	241479-75-4
	≥97%, ee = 98%, Individual Impurity ≤0.3%	483340-19-8
	≥98%, Individual Impurity ≤0.5%	20099-89-2
	≥99%, Individual Impurity ≤0.2%	1180002-01-0
	≥98%, Individual Impurity ≤0.3%	338990-31-1
Posaconazole & Its Intermediates	≥99%, ee≥99%, Individual Impurity ≤0.1%	171228-49-2
	≥99%, ee≥99%, Individual Impurity ≤0.2%	184177-83-1
	≥99%, ee≥99%, Individual Impurity ≤0.3%	149809-43-8
	≥99%, ee≥99%, Individual Impurity ≤0.1%	175712-02-4
Rolapitant Intermediates	≥99%, Individual Impurity ≤0.2%	914462-92-3
	≥99%, Individual Impurity ≤0.2%	1214741-21-5
	≥99%, Individual Impurity ≤0.2%	1214741-14-6
Obeticholic Acid & Its Intermediates	≥99%	459789-99-2
	≥98%	1352328-66-5
	≥99%	1516887-33-4