

# **Product List**

### Inhalation

Hovione has developed a range of customized particle engineered APIs with superior powder properties and a suite of innovative, highly specialized Device Platforms that are able to address the challenges in your formulation development.

### **Particle Engineered/Customized APIs**

### Corticosteroids

PRODUCT	ROUTE OF ADMINISTRATIO	N		CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Fluticasone Furoate	() Inhalation	Nasal		397864-44-7	~	US DMF
Fluticasone Propionate	<b>⊘</b> Inhalation	Nasal	O Topical	80474-14-2	~	CEP, US DMF, JP DMF, CN DMF
Mometasone Furoate Anhydrous	<b>B</b> Inhalation	Nasal	<u></u> Topical	83919-23-7	~	CEP, US DMF, JP DMF
Mometasone Furoate Monohydrate	<b>⊘</b> Inhalation	Nasal		141646-00-6	~	CEP, US DMF, JP DMF, CN DMF

#### LABA/LAMA

PRODUCT	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Umeclidinium Bromide	<b>O</b> Inhalation	869113-09-7	~	DEV, TECH PACK
Vilanterol Trifenatate	<b>β</b> Inhalation	503070-58-4	<b>~</b>	GMP, TECH PACK
Glycopyrronium Bromide	O Inhalation	51186-83-5	~	US DMF
Salmeterol Xinafoate	g Inhalation	94749-08-3	<b>~</b>	CEP, US DMF

### **Formulation Services**

- Carrier-based, composite and carrier-free formulation development
- Generic Deformulation and Formulation services
- Novel formulation development
- Spray drying, Jet Milling and Wet Polishing particle engineering capabilities
- API particle customization to tailor formulation performance
- Dry Powder Inhalation Drug Product Manufacturing:
  - High and Low Shear Powder Blending
  - · Capsule, Reservoir, and Blister Filling
- · Biorelevant analytical formulation testing
- Integrated API, excipient, blending, device and analytical formulation capabilities

### **Device Platforms**

	ROUTE OF ADMINISTRATION	TYPE	DOSING	DOSE RANGE	APPLICATIONS
TwinCaps© DPI	<b>∂</b> Inhalation	Reservoir	Single-use	Up to 2 x 30mg	Anti-virals, vaccines, rescue therapies and more
Large Dose DPIs	<b>∂</b> Inhalation	Reservoir	Single-use	Up to 8 x 50mg	Antibiotics, biologics, anti-virals and more
PowdAir© DPI	00 Inhalation	Capsule	Reusable	Up to 50mg	Asthma, COPD, Cystic Fibrosis and more
Papillon DPI	<b>∂</b> Inhalation	Blister	Reusable	Up to 50mg	Asthma, COPD, Cystic Fibrosis and more

- Available for Integrated Formulation-Device Development, Licensing, Supply and Customization
- Active collaborations with device partners to bring the right dry powder inhalation device for every formulation

Contact our experts today to know how to integrate API, excipient, blending, device, and analytical formulation capabilities.



Get to know more





## **Product List**

# Oral, Injectable, Topical and Ophtalmic

### **Security of supply**

Hovione provides the peace of mind of a high-quality manufacturer who is a founding member of Rx-360 and has an unblemished regulatory track record.

	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Doxycycline Hyclate	Oral Injectable	24390-14-5	~	CEP, US DMF, JP DMF
Doxycycline Monohydrate	Oral	17086-28-1	~	CEP, US DMF
Minocycline Base	Oral Injectable	10118-90-8	~	US DMF
Minocycline Hydrochloride	Oral Injectable <u> </u> Topical	13614-98-7	<b>~</b>	CEP, US DMF, JP DMF, CN DMF
Corticosteroids				
PRODUCT	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Betamethasone Acetate	Ophtalmic Injectable	987-24-6		US DMF
Betamethasone Disodium Phosphate	⊙ Ophtalmic  Injectable	151-73-5		US DMF, JP DMF
Halobetasol Propionate	<u></u> Topical	66852-54-8	~	US DMF
Hydrocortisone Aceponate	<u></u> Topical	74050-20-7	~	ASMF & VMF
Antiparasitic				
	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Ivermectin Human Grade	Oral Oral	70288-86-7		CEP, US DMF
Excipients				
PRODUCT	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
DTPA (Pentetic Acid)	Injectable	67-43-6		GMP, TECH PACK

### **Drug Delivery Expertise**

- Solubility Enhancement Platforms:
  - ASD-HIPROS, Dispersome®
- Sustained Release
- Ophtalmic
- Nasal and Inhalation

### **Manufacturing Services**

- Integrated offer: from Chemical Synthesis to Drug Product Manufacturing
- Bottom-Up and Top-Down Particle Engineering by:
  - Spray Drying, Spray Congealing, Hot Melt Extrusion, Co-Precipitation, Crystallization and Milling
- Batch Tableting and Precision Capsule Filling
- Continuous Tableting

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