





# Everything for Inhalation





# Fully integrated independent service provider in inhalation

Hovione offers customised high performance APIs, particle engineering and formulation along with a full range of simple, patented, cost-effective DPIs.



**DISPOSABLE DPI** 



**LARGE DOSE DPI** 







**BLISTER DPI** 

## **Dry Powder Formulation Services**

- Formulation development services
- Generic API with bespoke powder properties
- Small-scale to commercial manufacturing
- Precision capsule filling

- Wet polishing
- Jet milling
- Spray drying
- Scalability

#### **Portfolio of Off Patent APIs**

Our products are particle engineered to customised specifications using Hovione's in-house micronisation capabilities.

- Fluticasone
- Salmeterol
- Umeclidinium

- Glycopyrrolate
- Mometasone
- Vilanterol

# **Particle Engineering Technologies**

### **Unprecedented particle size control:**

- Median particle size control down to 0.1 µm
- Spans down to 0.6
- At any scale

# **Advanced engineered particles** for low and high dosages:

- Microencapsulation
- Nanocoating