



## Active Pharmaceutical Ingredient Services and Capabilities

From the day we founded Aesica in 2004, we have been committed to being fast, flexible, innovative and reliable. Qualities that are helping to make us one of the world's leading contract developers and manufacturers of pharmaceuticals. We are constantly developing the technical and analytical skills of our people to ensure that we are capable of meeting the demands of our customers.

### Custom Synthesis

We offer development and manufacturing services for APIs and intermediates on an exclusive basis. We are experts in process scale up and technology transfer with a focus on safety, quality and regulatory compliance. Our fully integrated analytical and development facilities support the commercial production from early clinical phase through to full scale manufacture.

### Manufacturing Facilities

Our facilities fulfil cGMP standards and are regularly audited by customers and regulatory authorities including the MHRA and FDA. We manufacture highly potent active pharmaceutical ingredients (HPAPI) to commercial scale and possess UK Home Office licenses for the possession and manufacture of schedule 1-4 controlled drugs.

### Kilo Lab

- cGMP kilo lab facilities
- Up to 50L reactor vessels
- Hastelloy filter drier technology

### Pilot Plant

- cGMP pilot plant facilities
- Glass-lined reaction vessels up to 250L volume
- Hastelloy filter drier with glovebox isolation technology

### Commercial Scale Plants

- 2 cGMP computer controlled multi-purpose plants
- 6 cGMP API and intermediate manufacturing plants
- Up to 10m<sup>3</sup> reaction vessels
- Filter drier technology up to 6m<sup>2</sup>
- Clean room facilities for finished product handling

continued overleaf...



To discover how we can support your needs

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## Core Capabilities

Aesica offers a wide range of technologies on a commercial scale, including:

- Pressure Hydrogenation
- Bromination
- Grignard Reactions
- Chlorination with Thionyl Chloride
- Friedel-Crafts Reactions
- Lithium Aluminium Hydride Reductions
- Gomberg Arylation
- Reaction with Nitro Alkanes
- Chiral resolutions
- Hydrogen Chloride Gas Handling
- Oxidation
- Stereoselective Reduction
- Acylation
- Alkylation
- Amidation
- Amination
- Ammonolysis
- Diazotization
- Halogenation
- Mannich reaction
- Nitration
- Organometallic reactions

## Generic APIs

We have experience in supplying bulk APIs to the global pharmaceutical industry, building a reputation for reliability, quality and service that has made us the partner of choice for many of the world's leading companies.

- Flurbiprofen
- R(-) Flurbiprofen
- S(+) Flurbiprofen
- Paroxetine Hydrochloride
- Paroxetine Hemihydrate
- Buflomedil Hydrochloride
- Butorphanol Tartrate
- Sodium Flurbiprofen

