

# Chemistry Service Unit

## Chiral Separation Services

WuXi AppTec is a global leader in providing discovery, testing and manufacturing services for the pharmaceutical, biotechnology and medical device industries. Research-driven and customer-focused, with operations in China and the U.S., WuXi AppTec offers a broad and integrated portfolio of services designed to assist our customers with cost-effective and efficient outsourcing solutions.

Chiral Separation team at WuXi AppTec offers purification services of chiral compounds, from milligram scale to hundreds of kilogram scale; all with high quality, high efficiency and competitive prices. We have over 20 sets of sophisticated instruments, including analytical SFC-MS, prep-SFC and prep-HPLC. In addition, we have many experts in this field who have built a solid reputation with our customers, demonstrated by a high rate of repeat business over our 10 years of service.

### Services

- Chiral separation method development
- Chiral separation at preparative scale
- Chiral separation at production scale

### Capabilities

- 3 sets of preparative SFC with 5cm AD, OD, AS, OJ and IC columns
- 5 sets of semi-preparative SFC with 2.5cm and 3cm AD, OD, AS, OJ,AY, OZ and IC columns.
- 2 sets of analytical SFC-MS, 5 sets of analytical SFC, with a wide collection of chiral columns
- 5 sets of preparative HPLC, with 5cm, 8cm and 10cm columns and packing station, bulk CSP available

### Highlight of SFC Technology

- Speed: Higher flow rate for faster separation
- Resolution: Faster mass transfer between CSP and supercritical fluid for superior resolution
- Productivity: Stacked injection enabling high-throughput separation
- Cost reduction: Less solvent consumption for shorter post-separation process
- Green technology: CO<sub>2</sub> as major eluent tally with environmental protection

### Successful Cases

- Case 1- one batch separation from big pharma A:
  - 30kg chiral separation completed in 1.5 month, including method development and workup

- Case 2- Multi-batches separation from big pharma B:
  - Scheduled chiral separation on weekly basis
  - 10-20 compounds per batch, from milligram to hundred grams each
  - Method development, optimization, chiral separation, concentration, QC and packaging included
  - Pure enantiomers obtained in 5 working days

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