

Process Chemistry Services

WuXi AppTec is a leading global pharmaceutical, biopharmaceutical, and medical device outsourcing company with operations in China and the United States. Shanghai Syn-The-All Pharmaceutical Co. Ltd. ("STA") is a wholly owned subsidiary of WuXi AppTec which provides "end-to-end" API development and manufacturing services including chemical synthesis route selection, process optimization, scale-up process research and is capable of producing intermediates and APIs from gram to metric ton scale.

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.

WX
LISTED
NYSE

Services

- **Early-Stage Development**
"Fit for purpose" synthetic route and process development
- **Late-Stage Process Development**
Commercial route development
Commercial process optimization to remove bottlenecks; increase yield and robustness, resulting in better economics
Process validation
- **Process Analytical Science**
Analytical method development and validation
Characterization, in-process control and release testing
Impurity structure elucidation
ICH stability studies
- **Process Engineering**
Crystallization process development
Solid state characterization
Process scale up
Particle size control
- **Process Safety Evaluation**

Our Strengths

- Integrated service offers turn-key solutions
- World class R&D team consisting of over 300 experienced process chemists
- State of art R&D facility including 26 process chemistry labs and 3 kilo labs
- Plant simulation equipment such as Jacketed Reaction Systems; jacket flasks, overhead stirrers, temperature control circulators
- Wide range of chemistry expertise including specialized technologies in:
 - Catalysts screening
 - Flow chemistry and continuous processes
 - Biotransformation
- Seamless transition from development to manufacturing
- Experienced project management and dedicated customer service teams



For more information on WuXi AppTec's services please contact:

North America / Europe
+1 (651) 675 2000 • +1 (888) 794 0077
info@wuxiapptec.com

China
+86 (21) 5046 2477
customer_service@wuxiapptec.com

www.wuxiapptec.com

DEV-001-08.31.12