

Chemistry Service Unit

Compound Management Service

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.

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With a dedicated team, our Compound Management Center at WuXi AppTec offers compound management, multi-format plating, and reformatting service to support high-throughput biological screening and other drug discovery activities. With reliable instrumentation and well-trained personnel, our efficient compound management service increases screening productivity, ensures compound stability/security, and shortens overall cycle time.

Compound Storage

- **Storage conditions:** humidity and temperature controlled environment, including low temperature (-20 °C) or nitrogen chamber
- **Storage vessels:** 2D-barcoded microtubes or 1D-barcoded vials/plates
- **Sample tracking software:** Compound Information Management System (CIMS) to track sample location, inventory status, and usage history

Compound Reformatting

- Reformat solid samples into various standard formats including 96-well rack
- Reformat liquid samples, e.g., from a 96-well plate to higher density formats such as a 384-well plate

Plate Preparation

- Weigh out a specific amount of samples (powder, crystalline, liquid, or semi-solid substances)
- Prepare DMSO solution and convert to assay ready plate for biology and ADME testing
- Employ 8- or 96-channel liquid handler for compound selection and dilution

Compound Shipping

- Receive from and deliver to any location around the world: ambient or cold shipment
- Customize sample tracking formats per client's requirement



Liquid handler, 96 channels, Hamilton Nimbus



Liquid handler, 8 channels, Hamilton Star

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

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Collaboration Examples

Example 1 — Manage newly synthesized compounds (Annual capacity: 600,000 compounds)

- Receive dry samples from multiple sites including WuXi, client, and other collaborators
- Prepare DMSO solution in mother plates, and upload sample information to compound tracking system
- Select sets of samples to prepare and distribute assay-ready plates for biology and ADME tests twice weekly

Example 2 — Compound Formatting (DMSO solution from a large batch of solids with rapid turnaround; 200,000 samples within 4 months)

- Weigh out certain amount (e.g., 10 μ mol) of each solid to 2D-barcoded tubes manually
- Add DMSO by liquid handler to prepare solution at designated concentration
- Ship the DMSO solution to client designated destination
- Return remaining solids to client or store at WuXi per client's direction

Example 3 — Compound Re-Formatting (Multiple copies of a large batch of solids)

- Receive a large batch of solids in non-standard vials
- Weigh out 3 copies of each compound manually at a designated amount (e.g., 7.2-8.8 μ mol) into 2D-barcoded tubes
- Transfer remaining material (> 1mg) into a standard vial
- Send selected sets of compounds to client-designated destinations, and store one copy at WuXi

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Solid Weighing

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