

# COMPOUND MANAGEMENT



## OUR CAPABILITIES

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- Cost effective compound identification, selection, and procurement
- High-throughput compound analysis
- Multi-format plating and reformatting
- Inert atmosphere and low temperature storage and processing
- Fast order fulfilment and worldwide delivery
- Disaster recovery and business continuity

### COMPOUND MANAGEMENT CONSULTATIVE SERVICES

Evotec also provides compound management consultative services. We discuss resource requirements with our clients and design solutions, including need identification, process design, facility layout, process workflow, vendor qualification, selection and implementation.

### NCC COLLECTION

We are responsible for management and distribution of the NIH clinical compound collection (NCC), approximately 1,100 bioactive compounds with a history of use in man. The compounds are made available as a pre-formatted set to research organizations including for-profit companies, universities and qualified individuals. For more information, visit [www.nihclinicalcollection.com](http://www.nihclinicalcollection.com).

### TRACK RECORD

- Home of the NIH (>370,000 compounds) collection since August 2004

- Over 25 client collaborations working to individual specifications
- Over 27 million samples shipped to 253 recipients in 18 countries
- Over 1.5 million samples acquired and processed for clients
- Experience with 128 compound suppliers from 10 countries

### PEOPLE

- Key operational personnel bring a combined 45 years of compound management experience. Most of this experience comes from the large pharma sector and ensures that the Evotec team understands client's needs and deadlines.
- Each client has a dedicated Project Manager to act as a single point of contact to insure an open line of communication is always maintained.

### ACQUISITION

- Many growing collections start with the library design and acquisition process.
- Evotec has in-house expertise to assist in the design of a diverse or targeted collection as client needs dictate.
  - Evotec has a vast network of compound suppliers around that world. This enables Evotec to get the lowest price possible. More importantly it insures that compounds are available, shipped on time, and pass stringent quality control standards.
  - Strategic alliance with a leading online content provider.
  - To date, Evotec San Francisco has

Evotec has combined state of the art technology with industry experts to offer Compound Management services helping you build, grow, or manage a collection to the highest quality to support your research.

We understand the importance of your samples integrity and the absolute need to get samples to you on time and in excellent condition. Our mission is to operate as an extension of the client and enable research to progress seamlessly.

Our San Francisco facility is home to sample collections owned by governmental, not-for-profit and commercial organizations. The National Institutes of Health Molecular Libraries Small Molecule Repository is one of the many collections we manage.

acquired 1.5 million compounds from more than 125 suppliers worldwide.

### TECHNOLOGIES

- Options for storage at ambient, 4°C, -20°C, and -80°C, and inert atmosphere to ensure sample integrity.
- Automated and manual storage options to match client throughput needs.
- Neat sample handling by weighing or volatile solvent transfer.
- A variety of liquid handling platforms to handle all standard formats of vials, microtubes and microplates. All liquid handling operations performed under inert atmosphere.
- Nanoliter dispensing available for the preparation of screening ready plates.

### DATA HANDLING

- Configurable web based interface that allows clients to access their compound collections from their desktops.
- Industry standard sample management software.
- All sample handling operations are barcode tracked and recorded to create a detailed sample history.
- Flexible reporting formats.

## Case Study: Since 2004 we have managed the Molecular Libraries Small Molecule Repository (MLSMR) for the US National Institute of Health (NIH).

Evotec built and maintains a collection of over 370,000 samples. Compounds are distributed regularly across the US to the NIH Molecular Libraries Probe Production Center Network for high throughput biological screening.

### TASK 1. IDENTIFICATION, PROCUREMENT, ANALYSIS AND STORAGE.

Compounds were identified from both diverse and targeted compound libraries at a level of 5-20 mg. Selection was based on diversity and clustering, excluded functionality and physicochemical properties. Table 1. Summarizes the compound numbers and the QC analysis findings.

<b>NUMBER OF COMPOUNDS RECEIVED</b>	<b>417,277</b>
Number of suppliers	77 Academic
Incoming QC pass rate	
Weight	97.5%
Solubility	95.6%
Identity/purity	88%
Overall	81%
Accepted	374,280

### TASK 2. ANNUAL DISTRIBUTION OF FULL SCREENING SETS, QUARTERLY UPDATES AND FOLLOW-UP SAMPLES ON DEMAND TO CENTERS ACROSS THE US.

Figure 1 demonstrates the extent of the logistics operation to date with over 10 million wells distributed over 1,000 shipments during a five year period to the screening centers shown in figure 2.

#### MLMSR CUMULATIVE SHIPMENTS THROUGH AUGUST 2011

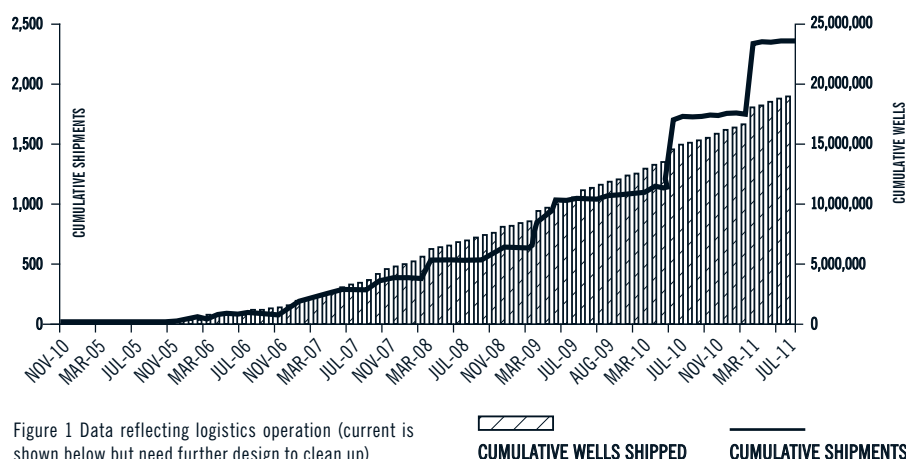


Figure 1 Data reflecting logistics operation (current is shown below but need further design to clean up).

#### MOLECULAR LIBRARIES PROBE PRODUCTION CENTER NETWORK

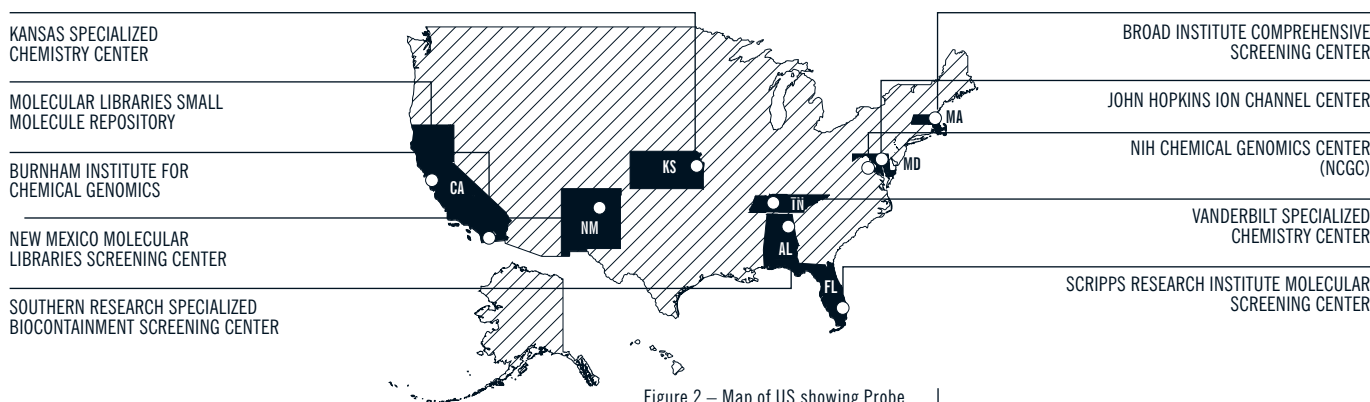


Figure 2 – Map of US showing Probe Production Centers Network in relation to Evotec.

“Outsourcing the management of our repository has proved to be a very effective solution; it has also allowed us to maintain a flexible approach to the storage and distribution of these important samples.”

*Jamie Driscoll, Chief of Research Services in the National Institute of Mental Health's Division of Neuroscience and Basic Behavioral Science.*

#### CONTACT

To learn more about how our compound management expertise can contribute to the success of your drug discovery programs, please contact us at [info@evotec.com](mailto:info@evotec.com).