

## Enterprise Substance Manager for proprietary inventory

In drug research, the more compounds your organization creates and tests, the better your chances are of finding the next blockbuster drug. But your ultimate success depends on logistically managing the many compounds your teams produce. Makeshift data management systems and processes cannot support the growing volumes of materials and information and lead to costly delays and bottlenecks.

ESM is a materials management solution for proprietary compounds and sample plates used in high-throughput screening and combinatorial chemistry operations. It enables your organization to manage proprietary substances from one intuitive interface.

Whether operating as a complete standalone solution or with ESM Global Access, ESM provides a proven solution for real-world compound management challenges by linking multiple installations of ESM and/or legacy compound management systems under a single search / request interface.

## Who benefits from Substance Manager?

**Research scientists** gain access to compound collections anywhere in the enterprise with a single request.

**Dispensary managers** realize the power and flexibility to manage inventories and fulfill complex requests, while maximizing utilization of sophisticated robotics and automation equipment.

### MAKE THE MOST OF VALUABLE SUBSTANCES

- Optimize business processes by efficiently identifying and preparing substances for screening regardless of location or origin.
- Improve innovation by allowing researchers to focus on high-value scientific activities instead of managing the logistics of materials.
- Reduce time locating and obtaining proprietary substances needed for experiments by 25-60 percent.
- Enhance the value of proprietary research assets - make them searchable and accessible across global organizations.

sciQuest™

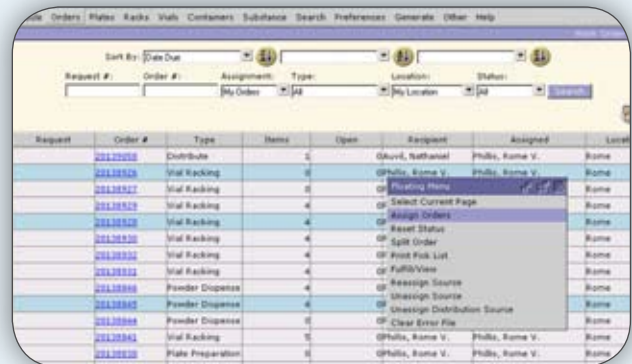
EMPOWERING. STRATEGIC. PROCUREMENT.

## Managing dispensary workload

The Order WorkList is the dispensary's hub for all inventory and fulfillment activity. Incoming orders may be prioritized and/or assigned; and/or split or consolidated to facilitate fulfillment according to your business rules. Technicians may print pick lists or issue retrieval commands to automated storage systems.

Within fulfillment functions, your technicians have the flexibility to alter specifications, distribute existing containers from inventory, or perform manual or automated dispensing operations.

Fulfillment examples include dispensing solids to singles with optional dilution; dispensing solutions to/from singles, plates or racks; replicating, combining, and/or splitting plates or racks; and replenishing depleted solutions from powders to make new source containers for custom plating.

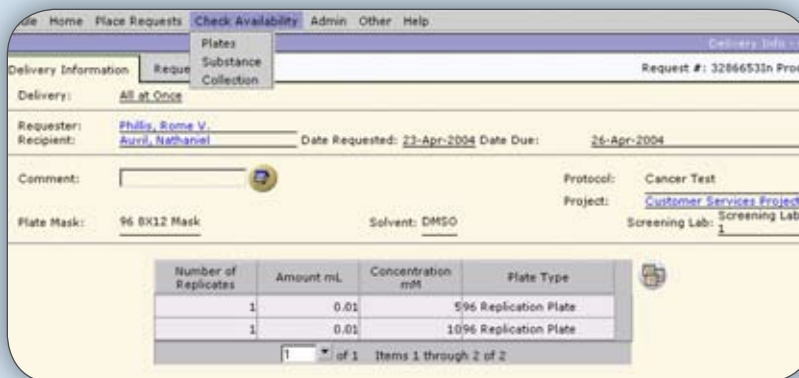


Manage all dispensary workload from one interface.



## Requesting samples

Using ESM's Researcher Desktop, scientists anywhere in your organization can search sample availability, request single samples, entire screening plate collections, or a few to tens of thousands of samples to be plated for follow-up screening. As samples are delivered, the system uses your business rules to notify screening databases and to allow researchers to review details of delivered samples. Open, published APIs also permit other applications to submit requests for samples.



Single requesting interface for samples and collections.

## Creating, registering, and manipulating containers

Your technicians can quickly and easily create new plates, vials and racks (for storage or dispensing). New containers may be imported via text files, entered individually online, or registered from an external system via API. Empty pre-tared vials may be registered and distributed to chemists to facilitate accurate weighing of submitted samples. Once containers are registered, ESM supports a number of container operations, including receive, distribute, move, split, update quantity, add solvent, dry down and bulk container updates.

To better track inventory, ESM also offers a robust search engine allowing inventory technicians to build, save and run queries against ESM's standard container information or against fields they define.

## Built for flexibility and integration

Effective substance management requires integration across research systems and ESM takes an open-standards approach, freeing research-centric organizations to use the best available technology.

## Managing inventory sample preparation

Efficient library management requires the ability to manipulate samples in a variety of forms and to interact with robots and automation systems. ESM supports a wide range of sample preparation operations, such as splitting solid samples to storage tubes or vials (with optional dissolution or racking), preparing master plates from individual solid or solution samples, replicating and/or reformatting plates and racks, and preparing mixture plates (including orthogonal screening mixtures). Business rules you establish can initiate these operations for automated storage and dispensing systems, and from robots. The data is then uploaded into ESM for streamlined workflow.

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