

## ASTRA ZENECA R&D

Astra Zeneca R&D is involved in drug discovery. Their low throughput to medium throughput screening compound requirements were handled by very experienced compound management group.

This group used excel based system for completely managing requests, processing, and dispensing and long term storage of compounds in deep well storage. They had limitations in terms of throughput, accuracy & decided to look for a solution. Qualis Platform was introduced to AZ. A compound management system that can handle low to medium throughput screening was deployed successfully



*Manage your compound management processes with Qualis CMS*

## WHATS' UP WITH DRUG DISCOVERY

Drug discovery and contract research organizations need a robust compound management group to manage their compounds. Typical small to mid-segment organizations depend on the skillful compound management team who generally armed with excel as their mere automation tool.

There is no point in blaming the industry, the SME sector of this industry are taken aback looking at the implementation, maintenance and total cost of ownership of automation solutions for this need.

### Qualis LIMS Platform has proved the other way

#### **Q: What if you had an electronic system for receiving all your compound requests?**

A: Qualis platform based compound management system with request handling was exactly built to handle compound requests for any type of screening.

#### **Q: What if you can locate a specific compound in few seconds from your inventory of thousands of compounds?**

A: Cherry pick your compound of choice from solids and liquids stored in different containers, plates, storage systems.

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*“We implemented Qualis platform based compound management system for our global drug discovery unit which helped in transforming our way of managing compound requests, preparation and distribution. The CMS directly helped the R&D improve its throughput” –*

*Dr. P. Dwarakanath (IT, Astra Zeneca)*

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## GET THE PICTURE

This is a very old drug discovery unit and they used excel based system for Tracking the compound requests, preparation and distribution of compounds to stake holders.

This was a complete manual processes and was completely dependent on personnel involved in the compound management. Even if a single person had to take off the system would collapse as the workload was quite heavy and no other person can take over the job as it involved prenominal amount of knowledge of the existing system and also was totally manual verification



*Full Traceability for any compound*

## Full Traceability

*Qualis has been designed with Barcoding capabilities. Qualis has full traceability of any compound that is created, ordered, stored, and Dispensed within the system Electronically from several other systems.*

## Compound Processing

Compounds can be processed for DMSO addition. Automated DMSO addition through liquid handlers can be easily automated based on templates for sample positions can be generated for quick processing of compound.

## Compound Storage

Compounds processed can be moved to deep well plates. The CMS can handle any type of plate, tray or storage container for long term storage of compounds in liquid and solid form.

## Compound dispensing

Compound requests from research personnel can be processed with appropriate plates, dilutions for screening. Mandatory tests for screening can be added to dispensed compound. The results of these screening tests can be recorded. Multi-level plate transfers, master plate creation can be efficiently handled by the system.

and controls oriented.

The problem of their existing system was that the requester had to call the CMS group constantly and check the status of their requests or simply wait until the compounds are delivered. At the CMS group side it involved big pressure in terms of manually processing the requests and making sure the right deliveries are made. It was a nightmare especially even from a low throughput screening.

## AUTOMATED COMPOUND MANAGEMENT

The system was designed for low throughput to medium throughput screening for both solids and liquids.

The system can handle requests from multiple teams, compound collection, compound processing with all the business rules for dilutions, transfers from one type of storage container to multiple types of containers (vials, tubes, deep well plates like 96, 384 wells) or any custom storage container. Automates compound storage on storage systems based on business rules, compound ordering from external sources, handles rules based dispensing and transfers across multiple facilities. Fully integrated with global systems.

## Compound Collection

Compounds can be collected from personnel synthesizing within the organization or from external source which are received physically and

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