

Onsite Services
Science as a Service

Success story

Small Molecule Purification

SCIENCE AS A SERVICE ACCELERATES INNOVATION IN THE LAB OF THE FUTURE

CHALLENGE

A leading global pharmaceutical company needed to find new ways to help their scientists focus more time and attention on innovation and strategic drug project work.

Maintaining cell lines, performing QC assays, and doing routine chromatography were consuming a large portion of scientific time. Through a series of workshops and analyses, these medium-complexity tasks were identified as key opportunity areas where substantial time savings could be realized. Re-capturing this time to focus on patent-generating science and innovation would require an increased focus on operational efficiency and standardization of routine laboratory tasks.

SOLUTION

After an in-depth review, Avantor Services assembled an experienced scientific team to implement and manage the Science as a Service program. Scopes of Work and Service Level Agreements were developed along with a comprehensive metrics dashboard. Communication plans were also executed to build trust with the company's researchers.

Adhering to Good Laboratory Practices (GLPs), the Avantor Services team performed small molecule purifications as a service. This included normal and reverse phase purifications required to isolate newly developed compounds for advancement within the R&D project lifecycle. As an added

CHALLENGE

A pharma company observed that senior scientists spent a significant amount of time on low to medium complexity tasks and, as a result, had less time available for working on innovation and other strategic priorities.

SOLUTION

Avantor Services performed small molecule purifications as a service, including normal and reverse phase purifications.

RESULT

In the first nine months, the program returned 7,209 direct resource hours to the scientists, while providing a 20% overall improvement in the efficiency of the purification process.

"Our medicinal chemistry department has been very fortunate to pilot a program using Avantor Services. They have made a tremendous impact on our medicinal chemistry efforts, particularly by providing support with purification of intermediates and final compounds, performing instrument checks, and liaising with Lab Information Systems."

- The Company's Director of Medicinal Chemistry

benefit, the team also implemented system suitability checks on all walk-up purification equipment - ensuring consistency and data integrity, regardless of the operator.

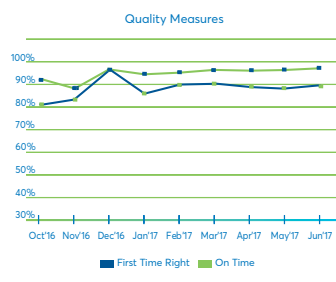
Avantor Services demonstrated its commitment to quality through the delivery of detailed performance metrics focused on quality, time, and process efficiency development. Such deliverables are critical success measures for our scientists and the scientists we support.

RESULT

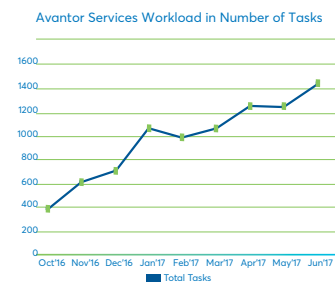
Avantor Services delivered a time savings of 7,209 direct labor hours to the customer. Throughout the course of a year, the Avantor Services team absorbed the protocol-driven work, allowing researchers to focus more time on higher level scientific functions.

The increased focus by Avantor Services on the purification process resulted in efficiency gains of more than 20% - when compared to the prior state of the overall purification process.

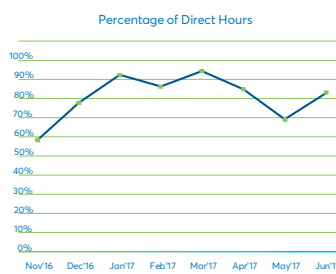
Given the success of this small molecule purification program, the company has now expanded the scope of the Avantor Services Science as a Service program to other medium-complexity scientific areas.



Strong commitment to quality through drivers that are critical for successful service delivery to scientists.



Increase in request volume proved customer confidence in Avantor Services offerings while demonstrating efficiency gains.



Commitment from Avantor Services to ensure our customers receive the most value for our services targeting 80% direct labor for our associates.

Output of Avantor Services Small Molecule Purification Team	
Purification Requests	320
Average Time Per Purification (Hours)	16.8
Tasks Completed	1,503

*Current at time of publication.

Do you need help streamlining scientific workflows?

Visit vwr.com/avantorservices or email services@avantorsciences.com for more information.

Avantor Services helps scientific organizations solve complex challenges, resulting in improved productivity, increased efficiency, and accelerated innovation.