

Lab & production services
media preparation

Success story

Media laboratory support

AVANTOR SERVICES INTEGRATES WITH BIOTECH CUSTOMER, MEETS 100% OF BULK AND SPECIALTY SOLUTION REQUESTS

PROBLEM

The Research and Development (R&D) concept-to-market timeline for novel therapeutics determines a life science company's ability to succeed. When the biotech subsidiary of a large life science company experienced an increased project load, scientists became increasingly frustrated with the workload and their ability to meet expected timelines. Members of the company's R&D community realized they were spending too much time making solutions for experiments, often repeating the same preparations in multiple groups for multiple projects. Their current process was determined costly because it wasted time, reagents, and money. Additionally, scientists often had difficulty finding their materials, resulting in frequent work delays.

SOLUTION

The company worked with Avantor Services to develop an onsite Scientific Solutions Laboratory, staffed and managed by Avantor Services associates with scientific experience, who prepare select media, buffers, and bulk solutions for experiments.

Now, scientific solutions are requested through a Laboratory Information Management System (LIMS). All experiments are entered into the LIMS, where scientists are able to access all documentation from their desktops at any time.

PROBLEM

Scientists at a major biotech subsidiary were spending too much time making solutions for experiments, which delayed the concept-to-market timeline for novel therapeutics.

SOLUTION

Avantor Services built an onsite Scientific Solutions Laboratory for media and buffers, supported by well-qualified scientists.

RESULTS

Avantor Services lab currently prepares every solution for the company's R&D experiments. Five experienced scientists manage bulk and custom solutions, involving sensitive scientific techniques and detailed record keeping of all procedures.

"We want you to know how much we appreciate the work you do. You are part of our team."

- Leader of science team at biotech subsidiary



RESULT

Avantor Services Scientific Solutions Laboratory currently prepares every solution for the biotech subsidiary's experiments. Our team of experienced scientists manages bulk and custom solutions, ranging in volume from 100mL to 500L. Monthly, Avantor Services produces an average of 3,550 total liters of solutions and follows 110 unique recipes for the customer.

Since creation of the Scientific Solutions Laboratory, the Avantor Services team's responsibilities have grown to include exclusively preparing all of the media for R&D projects and experiments utilizing the company's trademarked antibody. The preparation of this media involves sensitive scientific techniques and detailed record keeping of all procedures. To validate the quality of each prepared batch, Avantor Services performs conductivity, osmology, and pH experiments before making the media available for use.

Avantor Services team is now fully integrated with both scientists and the work streams at the biotechnology subsidiary. "We want you to know how much we appreciate the work that you do. You are part of our team," said a scientific leader at the company. Avantor Services scientists attend strategic meetings to discuss the solution preparation queue, plan experiments, and meet preparation demands. The team consistently meets 100% of on-time delivery requests for all solutions.

Additional growth in the responsibilities of the Avantor Services Scientific Solutions team has included support of experiments for the Fermentation Group where the team prepares specially requested solutions for investigative studies of spores. Here,



requests are made for traditional and novel solutions using the LIMS; Avantor Services prepares and documents these requests, identifies and solves synthetic issues, and recommends future solutions based on their experiential knowledge.

Output of Avantor Services Scientific Solutions Laboratory

Solutions Made Per Month (Avg. Volume)*	3,550 L
Unique Media Recipes	110
Range of Volumes Produced	100 mL–500 L

*Includes bulk and custom solutions. Totals listed above were current at time of publication.

Are your scientific resources being wasted on non-research activities?

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