

Avantor downstream optimization services

Offering trusted expertise to improve biopharmaceutical process development

From pre-clinical through commercial manufacturing, Avantor works closely with biopharmaceutical customers to reduce downstream optimization turnaround times so biopharmaceutical customers can reach the market faster with new therapeutics.

Our expert technical teams based at our global research & technology centers collaborate with you to understand your downstream challenges, then tailor solutions that improve your process efficiency. We offer resin and buffer screening and selection assistance to help enhance yield and purity, and decrease processing time. We couple these services with training and assistance alongside column-packing and configuration to help drive efficiency.

Global support and expertise from Avantor's Bioprocessing innovation centers including:

- Bridgewater, NJ, USA
- Suwon, South Korea
- Shanghai, China

Trust our expertise to help you decrease processing times, and increase yield and purity:

- Generation of application data to support chromatography documentation
- Rapid screening and process optimization support for customers in evaluation periods
- Identification of best running conditions for a range of proteins and applications including mAbs, fAbs, mAb conjugates., peptides, oligo's and insulin
- Support to achieve improved capture, purification and polish processing conditions



Case study

Optimized protein-conjugate purification to accelerate clinical trials readiness.

CHALLENGE

A global biopharmaceutical company at pre-clinical stages faced challenges with new molecular entity (NME) capture stage purification processes. Specifically, low purity results at the capture step were delaying the development of the entire purification process.

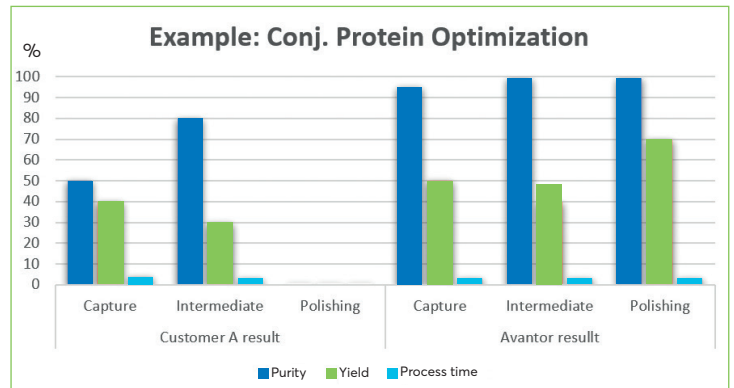
SOLUTION

Avantor received a request for a full three-step optimization service designed to accelerate the customer's speed to clinical trials. The customer worked with Avantor and realized significant improvement as a result of a new resin selection and an optimized buffer package at the capture state.

OUTCOME

Completed development of intermediate and polishing steps was achieved utilizing the new resin and buffer package.

Contact your Avantor account manager to learn more about our downstream services offering.



Example: Avantor helped improve a customer's conjugate protein yield and purity in capture and intermediate steps while maintaining or improving processing times. Purity was increased by 90% in the capture step, and increased by 24% in the intermediate step. Yield was increased by 25% in the capture step, and in the intermediate step increased by 33%. Processing time in the capture step was decreased by 25%, and maintained in the intermediate step. Additionally, a strong baseline was set for the customer in the polishing step.

