



International Alliance for
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Europe



Leveraging Analytical and Bioprocess Platforms for Biological Product Development and Commercialization

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Capturing the Essence of a purification step: Data-Driven simplification of a Protein Purification platform:

Early-stage development of a protein platform traditionally involved extensive Response Surface Model (RSM) DOEs for downstream purification process optimization. However, in early stages, speed is crucial to reduce overall product development timelines. To streamline one critical purification chromatography step, and to achieve the final product quality, we conducted a meta-analysis of historical DOEs, employing a two-stage approach combining Bayesian screening and effect size filtering.

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